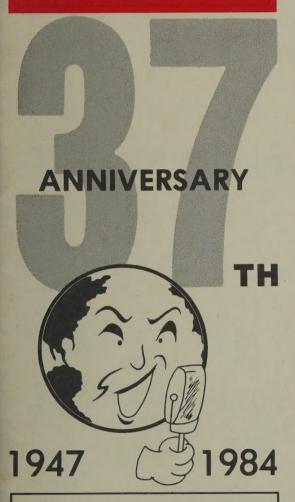
WORLD'S FINEST



CATALOG WS-84 MANY NEW ITEMS **CHECK EVERY PAGE!**

HEWLETT-PACKARD SCOPE



HEWLETT-PACKARD OSCIL LOSCOPE, general purpose unit with 500 Khz bandwidth on all ranges plus 0.2 mv/cm sensitivity for X and Y amplifiers making

it especially useful for phase measurements. Sensitivity 0.2 my to 20 V/cm over 16 cali-Sensitivity 0.2 mv to 20 v/cm over 10 carried brated steps in 1-2-5-10 sequence and vernier to 50 v/cm. Sweep 1 usec to 5 sec/cm in 21 calibrated steps; vernier to 12.5 sec/cm. Also 350 Hz squarewave calibrator, X2/X50 magnifier, auto triggering, beam finder. Input 1 megohm shunted by 45 pf. 115/230 VAC 50l megohm shunted by 45 pr. 115/250 the 551 1000 Hz; w/partial repro manual. 72x162x182, 38 lbs sh. Used-reparable \$145. Checked \$195

R-390A/URR RECEIVER

R-390A/URR RECEIVER famous military set covers 0.5 to 32 Mhz AM-CW-MCW in 31 one Mhz bands read directly on mechan-



directly on mechanical digital counter. 455 Khz final
IF; has four collins mechanical filters allowing 2-4-8-16
Khz selectable bandwieth. Calibration points
every 100 Khz; also BFO, AGC, dial locks,
600 chm audio out line and Carrier Level
meters. Rackmount; no covers; requires 115/
250 VAC 60 Hz. 10;x19x16; 95 fos sh (UPS in
2 pkgs or MF). Used-reparable, 3995. 2215.
Checked 3460 3535. Manual, partial repro 315.

PDR-27 RADIAC SET

AN/PDR-27 PORTABLE RADIATION DE-AN/PDR-27 PORTABLE RADIATION DE-TECTOR consisting of IM-74 radiac meter and DT-53 detector probe with BS-1 Geiger-Mueller tube. Meter indicates amount of beta and gamma radiation in millircent-gens per hour. Range scale for 0.5, 5, 50, and 500 M-rtngs/hr. ENC connection for headset monitoring. Uses batteries (not available) which must sup-ply 135 VDC, 22.5 VDC, and 1.5 VDC. 8x6x122, 15 lbs sh wt. Used, \$29.95; Transit case \$6. Book \$5.

SSB CONVERTER



CV-1982/TSC-26 SINGLE SIDEBAND CONVERTER for receivers having final IF's of 455 Khz such as R-390

and SP-600. Features 3* square -20-0+3 VU meter and 12* sq carrier and subcarrier meters. Has dual function switch Meter RTO Center-AF Out and Monitor AF Out-AFC PIPS; also switches Direct-Inverted (USB-ISB) Spectrum Translation, AF Gain, AFC, Tune. W/nuvisters 7586, 17/7587, 7895, 4/8056. Requires 115 VAC 60 Hz; 52x19x162, 29 lbs. Used-reparable \$155

BA-279 BATTERY PACK



BA-279/U BATTERY, intended to power AN/PRC-8-9-10 or Canadian PRC-509-510 backpack transceivers. However,

BA-4386 LONG-LIFE MAGNESIUM BATTERY for backpack radios AN/FRC-25-77; output (as supplied to PRC-25-77): 12.5 VDC 600 ma (receive), 12.5 VDC 1.4 amp and 3 VDC 400 ma (transmit) Estimated battery life: 30 hours 9:1 R/T ratio. 4/80 date code; cold storage thru 3/84. 32x92x2, 3 lbs. Unused \$6.95; 8/\$40.00

ANTENNA COUPLER

CU-1638/GR SOLID-STATE ANTENNA COUPallows

LER, allows use of upto six receivers in the 2-30 Mhz range on the same antenna. 3 db gain; 7 db max noise figure. 50 ohm input and output impedances. Includes 500 microammeter to monitor channels, *N" connections, shunt and series lightning protection. Requires 115/230 VAC 50-60 Hz; 3½x19x9, 15 lbs sh. Unused w/book, \$59.50

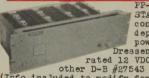
R-2174 VLF RECEIVER

R-2174/URR VOLTMETER-R-2174/URR VOLIMETER-VLF RECEIVER, Rycom frequency selective voltmeter used by gov' as 0.3 to 420 Khz AM-



LSB-USB receiver. Six bands; selectable bandwidth 0.1-3-10 Khz. Built-in VTVM has full scales 0.0003 to 30 Vrms in 11 ranges, 3-10-30 sequence; -70 db to +30 db, 10 db steps. Also 135-600 ohm-Bridge unbalanced and balanced select, speaker, and phone jack. Requires 115 VAC 60 Hz; 9x19x7, 25 lbs. W/partial repro book. Reparable \$125. Checked \$195.

VDC 4/8 AMP SUPPLY



PP-4887/UGA-8 SOLID-STATE POWER SUPPLY, consists of two independent modular

TERMINAL

rated 12 VDC 8 amps out; the other D-B #27543 rated 12 VDC 4 A. (Info included to modify for 10-15 VDC out.) Terminal for + or -12 V out. Requires 103-127 or 206/254 VAC 47-400 Hz. Front has fuse and on-off switch. 52x19x8, 36 lbs. Unused \$49.50 D-B #27543 12 V 4 A modular supply only, \$25. D-B #27544 12 V 8 A " " , \$38.

732 DATA

TEXAS INSTRUMENTS 732 ELECTRONIC DATA TERMINAL, a Silent 700 Series KSR unit intended for TTY communication using five level baudot code, 20 ma neutral current loop. Send-

75,

receive selectable speeds of 50, 75, and 100 baud (6.67, 10, or 13.33 cps). Upper cese only 37-key standard format keyboard hass 55 printable characters and five print functions Printer has solid-state printhead with 5 x 7 dot matrix heating elements; uses 8x10 thermal paper allowing for quiet operation. Provision for adapting to RS-252C interface or acoustic couplers. Requires 115 VAC 60 Hz. 62x204x192, 45 lbs sh. Unused w/book, \$185.00 THERMAL PAPER f/732, 300' roll. \$11. 3/\$30.

OPERATOR HEADSET

WESTERN ELECTRIC TYPE 52 OPER-ATOR'S HEADSET w/BOOM MIC, lightweight set has single receive element of approx 150
ohms DC resistance; mic on 8*
boom 50-70 ohms DC res. 5' cord
w/dual PI-55 style plug (WE596A).
Looks like a good headset for various intercom situations; 2 lbs sh. Used-excellent \$17.

ORDERING INFORMATION SEE PAGE 2

> MINIMUM **ORDER \$5.00**

Fair Radio Sales Co.

P.O. Box 1105 - - 1016 E. Eureka St. 419/223-2196 Lima, Ohio 45802 419/227-6573

CATALOG INFORMATION

This IS the only catalog we will issue this year. A supplement will be sent in the Fall.



50 MV. 15 AMP SIZE: 2x11x11 6625-810-6742 SIZE: 2x11x1: 6625-810-674 UNUSED \$2.50

FS=50 UA w/ mirrored scale, zero adj. Scale: 4.0-20.0 GMS % HEMOGLOBIN Mount on panel front or



behind. Fits 24 dia. hole. 51x6x2; Beede mfg., \$7.95



CALBIOCHEM meters, FS=50 UA 2-3/8" square. Used, \$4.95 #200037, 0-150 -350% GLUCOSE

scale. #200039, 0-.3% BLOOD ALCHL. #200056, 4-24% HEMOGLOBIN

DC AMMETERS by Mercer Electron-ics, 32x3½; fits in 22" dia hole. 5-50 MV; NEW. 0-300 ADC \$7.95 0-800 ADC \$7.95



mfg. NEW #MER-50KV-20V, \$6-95 \$4.95

0-50 KV DC & 0-20 VDC scale FS=1 MA DC; 48x4 blk face. Mercer Elec NEW



CB METER plastic w/black scales.

Scales are not linear. Size: 1-9/16" aq. NEW \$2 e

#FWR-S/CFM, as above but 0-5 pwr, 1-9 S-urits. #S-PWR/CFM, FS=200 ua (75 ua ctr); 1-9 "S", 1-5 pwr.



CLEAR PLASTIC METERS, 2-3/8" sq. fit 2-1/8" dia. hole. EMI mfg. Unused. #D1145-2, 0-5-

50 MADC, FS-5 made, \$4. #D1159-1, 0-50-500 MADC #D1159-1, 0-50-500 MADC scale, FS=50 madc, \$4.95 #D3630, 0-3 VDC, \$4.95



MICROMHOS DYNAMIC MUTUAL CONDUCTANCE USED IN 1-177 TUBE CHECKER BASIC 0-1.4 MA. HICKOK #M547A STK# 3F1350 \$4.95



DECIBELS

-10-0-6+ DB 6MW 600 OHMS 22" RD.WEST.2837 \$4

-12-0-8+ DB 100 UASTS 32"RD BLK. RUGG. WAC4586 N \$7.95

-12-0-+8 DB, FS=100 ua, 32 rd. blk. face. Used, \$5.95 -20-0-34 DB FS-199 MUA 25"R #GA50934 USED \$4.95

OTHER VALUES IN STOCK, WRITE

Power Set +6 to 0 to-3 23" RD. FS-200 UA, Wachine 1496/400 Rugg/SEAL U \$3.95



Modutec, zero 0-100 VDC, 0-75-150 MADC Full scale is

100 ua; 3x21, fits 2-1/8" dia hole. #821155, unused, \$5.95

METER ASSORTMENT, five U.S. mfg meters $2\frac{1}{2}n-2\frac{1}{2}n-up$; mixed odd scales, FS-100 ua and up-no choice \$10/asst

PRESSURE METER 0-30-60 in in-erements of 10; electrical type as used in milas used in mil-vehicles. 2½" dia 0.D. green rim; #6620-514 -4662, unused, \$5.95 ea

BATTERY CHARGE, FS=10 amps redline 6 A; 25" rd, Ben-

ROENTGENS PER HOUR METER 50 MICROAMPERE D.C FULL SCALE REMOVEABLE PLASTIC LENSE, BLACK FACE. Top scale 0-500, Lower 0-10 #300-10764 unused \$3.95



BALLENTINE V.T.V.M. METER ONLY AC VOLTS 1-10 DECIBELS

WESTON 643 4½" OR EQ. MFG. PT. NO. 205007 NEW STK#6625-557-0899 \$8.95

VACUUM GAUGE 0-30" vacuum scale (0-10-15 -20 not gradua-ted); 2-1/8" dia Marshalltown mfg #EC-324, NEW, \$4.50





0-200 UA meter consists of 14" dia meter in rubberized housing w/U-77 plug on rear. Meter easily removed. 3x12 dia; NEW 35.

Other SMALL METERS, 12" sq scaled types; used, \$6 ea: #20UA10 0-20 se FS-200 ua. #6719 -20-0-+20 se FS=1 ma. #M/618S, 0-10 scale FS=2 MA white face; used.

#BA/T195, FS-25 ma, 0-500 scale; black face, used. #ME/GRC, FS-1 ma black face; p/o RT66-7-8, used

RUNNING TIME

GENERAL TIME 22 rd running time meters; PRESERVE ! 6 places to .1 NEW \$14.95 each: #GH30016, 120 VAC 60 #MU30019, 220 VAC 50 Hz #HH30220, 120 VAC 50 Hz

#RTM-WRT 5-PLACE METER. 31* rd; 115 VAC 60 Hz. Various mfg., used, \$9.95



LP-GAS METER, 0-1 VDC full scale. Mounts in 2° dia. hole. Chrome finish #48560-2,

9 A.M. to 5:30 P.M. MONDAY THRU FRIDAY 9 A.M. TO 1 P.M. SATURDAY

TERMS

PRICES NET, F.O.B. LIMA, OHIO SEND MONEY ORDER, CER-TIFIED CHECK, VISA, or MASTERCARD with PURCHASE ORDER for IMMEDIATE SER-

We reserve the right to hold an order accompanied by personal or company check until after check clears the banks.

MINIMUM ORDER \$5.00 PLUS SHIPPING CHARGES

Include sufficient money shipping charges. (UNUSED PAYMENTS RETURNED AT ONCE.) Otherwise we will send shipping charges collect.

C.O.D. ORDERS, SEND 50% of PURCHASE with ORDER. CASH BALANCE will be COLLECTED UPON DELIVERY.

When writing for information PLEASE state what specific information you desire.

DESCRIPTIONS ALL MATERIAL OFFERED IN ALL MATERIAL OFFERED IN THIS CATALOG IS IN "USED-COMPLETE" CONDITION, UN-LESS QUALIFIED AND/OR NOTED AS "RECONDITIONED,"
"UNUSED," OR "NEW."
MERCHANDISE IS NOT OPERATIONALLY CHECKED UNLESS
SPECIFIED AS "CHECKED."
FOULDMENT DESCRIBED AS

EQUIPMENT DESCRIBED AS "REPARABLE"--MEANING "A-BLE TO BE REPAIRED -- IS ELECTRO-MECHANICALLY COM-

PLETE, BUT REQUIRES SOME TROUBLESHOOTING BY THE CUSTOMER.

AC VOLTMETERS

0-2 VAC 24" dia; Simpson Model 125, used, \$4.95

0-8 VAC, 31 ard; various manufacturers, used \$6.95 0-10 VAC 21" rd. 32" rd or sq \$5.95 var.mfg.

0-30 VAC 400 Hz $3\frac{1}{2}$ " rd; Weston 476, unused, \$5.95

30-150 VAC 60 Hz, various mfg: 2½ rd., used, \$6.95 0-300 VAC, 21 * rd, used \$6.

0-100 VAC, 32 rd., Hickok Model 47M, used, \$5.95 0-15 VAC, 31 rd., various mfg., used, \$5.95

0-150 VAC, 12" sq clear plastic; Pace mfg. NEW \$7.

AC AMMETERS

0-250 MA AC expanded scale 31 rd Weston 476. Used \$9 0-125 ACA FS=5 A for 400 Hz; 31 rd. Hickok \$9.95

#3947, ratio 200:2.5 A 5VA 400 Hz; 12x32" dia, \$2.95

CURRENT TRANSFOR-MERS for AC amme-ters; unused. #7150, ratio 260: 5 A, 40 VA 50-125 Hz; 12x4* dia, \$4.95 D.C. MILLIAMPS D.C. VOLTMETERS

FS=1 MADC, 0-1.0-50 scale, 32" rd clear case; Used \$5.

0-3 MA-DC, 32" rd. sealed. #4081, unused. \$6.95

0-15 DC MA, 35" rd sealed; various mfg. Used, \$5.95

0-100dcma 100ma. move. 3½"RD.RUGG. #4265 N \$6.95 0-150 DCMA SC. USED 32" RD. STD.CAY22061 \$5.95

0-200 DCMA SC. 22" RD.USED #MR25200DCMA \$3.95

0-200 ma dc, 3½" rd, vari-ous mfg. Used, \$5.95

0-20 MA-DC, $3\frac{1}{2}$ " rd. Various mfg. Used, \$5.50 Unused \$7.

0-500 ma dc 32" sq. bent pointer tip; used \$4.95

0-300 MA DC, 32" rd, clear plastic case. Used \$5.95

1-0-1 MADC, 21 " rd sealed; various mfg., used, 0-50 MADC, 31 rd., various mfg., used, \$6.95

100-0-100 MA DC, 32 rd Weston 301; Used, \$5.95

D.C. MICROAMPS

0-200 UADC, 32" rd, Vari-ous mfg; used, \$5.95

0-200 UADC and -8-0-+6 DB, 22" rd. sealed, new, \$4.95

0-500 UADC, 21" rd sealed; various mfg. Used, \$4.95 0-100 UADC, 22" rd sealed; various mfg. Used, \$4.95

FS=20 UA DC, 0-2 ma indi-cated; 3½" rd, \$6.95 50 UA MOVEMENT, SCALE -30, 0,150, POINTER AT ZERO, SEAL ED, 22RD USED TRC30150 \$4

0-5-10-20 Peak Volts, FS-500 ue; 2½" rd Weston 1021 sealed. Used, \$4.50

FS=50 UA DC, 0-50 ua & 250 ma scale; 32 sq. NEW \$7.



CLEAR PLASTIC FS=100 UA METER with non-linear SWR and 0-20 W scales; 2-3/8* sq face f/2*dia hole. #SWR-020, NEW \$4.95

FAN-SHAPED ME-TERS, plastic w/ zero adj. 3* top 2* bottom; 3* H. Fits 2* dia. hole EMI mfg. Unused.



#EMI-5VDC, 0-5 VDC, \$5.95 #EMI-25VAC, 0-25-250 VAC scale, FS-25 VAC, \$5.95



73T METERS 32x3 for 22

0-15 VDC \$7. 0-20 VDC \$7. 0-20 ADC, FS=50 mv, \$6.95 0-200 ADC, FS=50 mv, \$7.95 200 AMP DC SHUNT for 50 mv W/GE 200 amp shunt. \$15.00

0-100 VDC, 5½" rd elear plastic ease; used, \$5.95

0-15-600 VDC, $2\frac{1}{2}$ rd black face; w/mult. code-Used \$6.

0-2 VDC 22 sq, Simpson mfg for TMC; used, \$5.95 0-5 VDC, 32" rd., various mfg., used, \$6.95

0-80 VDC 32" rd; various mfg., unused, \$6.95 0-100vdc sc. 25" RD.RUGGED #9545 NEW \$5.95

0-750 VDC, 32" sq Simpson; used, \$5.95

0-200 VDC, $3\frac{1}{2}$ rd. sealed; various mfg. Used, \$6.95

0-300 VDC, 21 round; various mfg. Unused \$5.95 ous mfg.

0-500vpc sc. 3" sq. #231-1624 Usen \$5.95

0-1000 VDC, FS=500 ua, 31" sq. Hoyt mfg. #1075 New \$6. KILOVOLT DC, FS=1 MA: 0-3 KVDC, 22" rd new \$5.95 0-600-1500 22" rd used \$6.

R.F. AMMETERS

OTHER VALUES IN STOCK, WRITE

0-15 RF AMMETER, 31" rd.; various mfg. Used, \$16.95 ART-13 0-5 ANTENNA CURRENT. F5=250 ma; external trans-former coil not available; 2}* rd black face. Used \$5.

0-10 ANTENNA CURRENT, 2½ rd black face w/thermocouple; p/o BC-442. Used \$9.95

WATER TEMPERA-TURE METER, 3" dia with 20-240 F expanded scale. W/6 ft copper capillary. #261-9858. NEW \$14.

DC AMMETERS



O-5 AMPS DC TRIPLETT 420G 4gx4 w/zero adjust and mtg bezel. #KS19563L2,

Used \$12.95 WESTON 1941, 0-500 AMPS DC FS=50 mv; 4½x4, used, \$12.

0-15 AMPS DC TULL SCALE, 2-3/8" square; 2-hole flange mount 3-3/16" across. Emico

#D2877, NEW, \$6.95 \$4.95 WESTERN ELECTRIC 31" round olear plastie case; used: 0-15 ADC \$12. 0-10 ADC \$12.

DC AMMETERS, FS=50 mv: 0-30 ADC 22" rd; NEW \$6.95 0-200 ADC 22" rd NEW \$6.95 0-1500 ADC 32" rd used \$7.





TRANSISTOR AUDIO AMP



TRANSISTOR AUDIO AMPLIFIER w/5-transistors, on-off-volume and tone controls. Inputs for ceramic or crystal phono cartridges. Other possible uses as homebrew receiver, intercoms, the with B or 15 cm. 3%

child's projects. Use with 8 or 16 ohm 3" 4* speaker. Req 6-9 V AC or DC; with schematic. 1\(\frac{1}{2}\)2\(\frac{1}{2}\)1. #ER-10-1231 NEW \(\frac{1}{2}\)2.95; 2/\(\frac{3}{2}\)5.00 -100, 500, 1K LOT QUANTITY PRICES AVAILABLE-

HARMON-KARDON PCB

HARMON-KARDEN AUDIO COMPONENT CIRCUIT BOARDS, all new surplus with schematics:

STEREO TONE CONTROL (世界的高級 BOARD with ganged treble, bass, volume control balance pots. Tone controls are each 2/dual 50K; volume is 4-gang 100K. Also 3/4PDT push on/push off switches, 6 transistors; -26 VDC req. #HK-0866, \$5.00

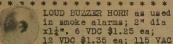


TONE CONTROL-AUDIO EQUALI-ZER, five ranges: 60, 320, 1K, 5K, 12K Hz. Requires addition of five 50K chm ween slide resistors (not avail-

able) and -30 VDC. W/simi-lar circuit diagram; 4gx3. #HK-1561, \$2.50 ea

POWER SUPPLY/SPEED CONTROL BOARD for record player. Consists of speed control circuit for 33/45 RPM player using 29 VDC motor (net included). Has 22 transistors w/usable lead lengths, two opto couplers (4N27). An interesting gadget board w/schematic. #HK-134450, \$2.25 RECTIFIER-CAPACITOR CIRCUIT BOARD, has capaciters: 7/47 mf 100 V, 2/47 mf 63 V, 2/500 mf 50 V. 6x3x12, 1 lb. #HK-26239B, \$1.50

PLEASE ORDER BY NUMBER. Unit prices only as indicated. Look for more DOLLAR DAZE throughout this catalog.



RECEIVER-TRANSMITTER CHASSIS, solid-state, broadcast band. \$2.00

43-83

LINE CORD, 2-conductor #18 gauge as on aplliances; 6 feet long, white. NEW, 3 for \$1.25

BRASS COUPLINGS for 3/8" dia. x 3/4" long shafts. 3 for \$1.00 23-77

MOBILE RADIO PLATE w/switch light, jack, 6' 10-cond. cable. Plate 32x32. \$1.00 25-77

49 Mhz WAIKIE-TAIKIE PC BOARD, no speaker or mic; 9 VDC req. \$1.50 ea, 3 for \$3. 44-83

MIXED HARDWARE: screws, nuts, washers removed f/equip. Usable; 3 lbs. \$1.00 30

RUBBER EQUIPMENT FEET 1-1/8* dia rubber with 1*L #2x20 bolt; w/o nut. 8/\$2.00 42-82

LEVEL METER, FS=150 UA, 3/8x7/8 face; o/a lxlx2. \$1.00 3/\$2.00

SPEAKER, 3* dia. 8 , 1 watt. Sanpo SP024, new, \$1.00 38-79



SPEAKERS

BOOKSHELF SPEAKER in walnut-grained vinyl-covered
7xl0\frac{7x2\frac{2}{3}}{2} enclosure. Has
4 dia 16 ohm 1 W speaker
and 6 foot cord with RCA
plug; 2 lbs sh. #ER-WD-SFK NEW \$4.50 ea 2/\$7.

SPEAKER PAIR in FLASTIC ENCLOSURES, each 4" dia 16 ohm 1 W speaker in attractive 6%x62x52 en-closure with 6' cord and RCA plug. White &



black plastic per pic; 4 lbs sh wt. #ER-PL-SPK-PR NEW \$4.95/pair. SPEAKER WRAP for assembling 10 x20x4 walnutgrained vinyl-covered enclosure; no grill cloth. 7 lbs sh. #ER-SPK-ENC, 2/\$3.00



100 - 500 LOT PRICING available on all above.

TELE COSTER

TELE COSTER I TELEPHONE METER, cost-effective device for the individevice for the individual or business who wants to keep "tabs" on the length and costs of long-distance and, perhaps soon, local telephone calls. Initial and secondary rates/period are programmable using the numeric plus 6-function keyboard. LED display shows cost/period plus elapsed time hr-min-sec. Also display flashes 15 sec before rate change and has X60 speed-up time so maximum acceptable charges speed-up time so maximum acceptable charges could be determined before the call. In sturdy, handsome beige plastic case. Requires 115 VAC 60 Hz; 2 lbs. NEW w/info \$10.

WHAT-CHA-MA-CALL-IT



We were told these were originally used

to allow up to four computers to access one peripheral, but we have ne further

but we have ne further infe. Hence, we are selling them for parts which are RS232-type connectors 4 ea DB25S and 1/DB25P, Triad 26.8 VCT 1.7 amp transformer, 4½ x5x1½ heatsink, two circuit cards, 8' 3-cond line cord, and 3x12x10½ enclosure. PC cards have 4/7400, 7401; 3/7404, 5/7420, 7430, 7473, 7476, 7493, 5/7490, 4/7495, 3/74121, 74153, 74156, 74,64, 2/75189, 555, MC1469R, MC1463R, 2NG055, MJ3101; also selectable caractels 2N3055, MJ3101; also selectable crystals 8800/2400 Khz and baud rates 300/110. 12 1bs sh. #340-400, used, \$12.95

DATA CASSETTE

DATA CASSETTE RECORDER, adaptable for use with most microcomputers having RS-232 input. having RS-252 input.
Functions: Eject, Recerá, Rewind, Ready,
Ferward, Step, Readfrem-Tape, and Writeen-Tape. Tape speed
1-7/8 ips, 4-track 2-channel.
Similar to Monroe Model 392. Requires -12 -3
\$5 V. Includes 3' eable w/DB-25P plug & beek.
8x5x3, 4 lbs sh. #DC-REC, unused, \$29.95

. 0 . GAUGE CABLE

2-CONDUCTOR PER CABLE in

PER CABLE In PVC jacket. Use for making welder cables, jumper cables, or wind generator hook-up. Each cable 2-conductor at length indicated. #8369-25 25' \$25. #8369-50 50' \$42. #8369-100 100' \$69.50 (Weight 1 lb/root.)



RIBBON CABLE for computer wiring or similar jobs; 20-conductor #22 stranded wire with ten color codes.

100 #RIB-20C: 500' 1000' \$.48 \$.85 \$.60 Price per foot:

O.5-32 MHZ RECEIVER

R-392/URR RECEIVER, 0.5 to 32 Mhz AM-CW in 32 bands using mechanical di-gital tuning. Triple con-version on lewer 8 bands, double on others. Select-ive bandwidth 2-4-8 Khz; 100 Khz crystal calibrater points. With 25 tubes of



peints. With 25 those of 26A7, 26A6, 26C6, 26D6, 6AJ5, 12AU7. Requires 24-28 VDC 5 amps. Rugged vehicular version of the famous R-390 receiver. ll2x142x11; 58 lb sh wt. Used-reparable, \$135. Checked, \$200. MANUAL for R-392, partial repro, \$15.00 IS-166 SPEAKER for R-392, used, \$12. w/set. 115 VAC POWER SUPPLY f/R392-no connector \$25.

2-12 MHZ USB 100 WATTS



RADIO SET transceiver as the major component cover-

ing 2 to 11.999 Mhz USB (voice and CW+800 Hz) in 1 Khz

URC-68 DISTRESS RADIO

AN/URC-68 DISTRESS TRANSCRI-VER, handheld unit designed as an emergency radio for aircraft pilots; operates ever 38-42 Mhz FM and 230-250 Mhz using 4 preset channels, voice, MCW, and beacen. All have 40.5 Mhz FM and 243 Mhz UHF channels; ether three OHF channels; ether three frequencies depend on selected crystals (not available), 50 Khz spacing. Power output 500 Khz spacker, and antenna. Requires 11-16 VDC originally supplies by RA-1112 battery (not available). 6x32x12, 3 lbs sh. Used-reparable with receiver and transmitter output 379.50 with receiver and transmitter output, \$79.50 AS-IS, no output but good modules, \$59.50 MANUAL, partial reproduction, \$10.00

LINEAR AMPLIFIER



AM-6155/GRT-22 LINEAR POWER AMPLIFIER (ITT Medel 3212), designed for 50 watt output from 10 W exeiter input ever 225-400 Mhz.

Uses Eimae X651Z tetrede in silver-plated cavity housed in removable drawer; 175-turn eavity heused in remevable drawer; 175-turn counter dial for tuning. Cavity has added feature VHF/UHF switch facilitating conversion AM-6155 to 116-150 Mhz VHF range with seme circuit changes. Main chassis contains solid-state power supply and buffer amp/multiplier; test meter on panel menitors voltages. Requires 105/120/210/240 VAC 50-400 Hz and \$20 V reg 60 ma, \$20 V keyed. 7x19x18½, 80 lbs sh in two packages. Schematic packet included. Used-excellent, not tested, \$149.50

BC & ARC COMMAND SETS

Even though they have been on the surplus market since the end of World War II, the Command Set Receivers and Transmitters are

till popular with hams and experimenters.

The series consists of either SCR-274N
(BC-prefix) or AN/ARC-5 receivers (R-prefix)
and transmitters (T-prefix).

As a group, the receivers cover 190 Khz to
9.1 Mhz and the transmitters 2.1 to 9.1 Mhz. Over the years many conversions have been written for the sets. However, the last comprehensive collection of such information,

CQ Surplus Conversion of such information, print in 1979.

If you are interested but not familiar with the Command Sets, your best source for info about them may be another ham. Schematics for any of the receivers and transmitters are available from us @ \$1.50 each plus a SASE.



Command receivers are command receivers are superheterodyne types which may be tuned by the use of a special spin knob or from a remote po-sition with a control box and spline shaft. Each have six tubes: 3/12SK7, lass six tubes: 5/125k7, 125k7, 12A6, and 12k8. They are designed to operate from a DM-32, a 24 V-DC dynamotor with an out-put of 250 VDC 60 MA and 24 volts. Shipped less dynamotor. Size: 5x5x11, 15 lbs sh.

WRITE for current availability

Command transmitters with proper use can put out 50 watts CW and 30 watts phone. Modulation is obtained from either of two separate units, BC-456 for single tube modulation or MD-7 for push-pull. The 575-600 VDC 175-200 MA and 24 volt power requirements



were originally satis-fied by the 24 VDC DM-33 dynamotor which mounted on either modulator. The transmit-ters use a 1629 *eye* tube for tuning and crystal calibration plus tubes 2/1625 and 1626. Size: 5x7x12, 17 lbs. sh.

BC-457/T-20, 4-5.3 Mhz, reconditioned \$19.95 BC-458/T-21, 5.3-7 Mhz, \$19.95 BC-459/T-22, 7-9.1 Mhz, \$25.; w/e dial, \$21.



BC-456 MODULATOR for use with Command Transmitters; single tube modulation with tubes 1625, 12J5, OD3. Has provision for mounting DM-33 dynamotor. 7x8xl0, 11 lbs. sh. Used 12.95

PUSH-ON TUNING KNOB f/Command Receivers, \$3. MC-215 SPLINE for remote tuning, 6 ft. \$1.50 DM-52 DYNAMOTOR, 25 VDC f/receivers, \$4.95 AC POWER SUPPLY f/Command Receivers; w/speaker, our construction. Kit, \$32. Wired, \$40. er, our construction. Kit, \$32. Wired, \$40. FT-263/MT-7 single receiver rack, \$3.00 FT-263/MT-7 single transmitter rack, \$3.25 FT-227/MT-70 SHOCKMOUNT f/FT-226 rack, \$2.50 C-48 TUNING CONTROL, panel style for ARC receivers 190-550 Khz; MC-215 required, \$8. C-1245 CONTROL, like C-48 but 108-135 Mhz \$9. C-37 DUAL CONTROL, 190-550 Khz and 118-148 Mhz dials for R-11/R-19 pair; unused \$8.95 EC-496 DUAL CONTROL, 3-6 and 6-9 Mhz dials for BC-455 pair; unused, \$7.95 BC-450 TRIFLE CONTROL, 190-550 Khz, 3-6, and 6-9 Mhz dials for BC-453-454-455; unused \$8.

R-19/ARC AIRCRAFT RECEIVER, 118 to 148 Mhz continuously tune-able. No dial; designed for re-mote tuning with spline shaft. mote tuning with spline shart.
IF-15 Mhz. With tubes 9002,
3/9003, 14A7, 2/14R7, 14F7, and
12A6. Uses accessories similar
to ARC-5 Series. Requires 250
VDC 60 ma and 24 VDC. 6½x5x11½;
13 lbs. sh. Used, \$18.95



R-11A RECEIVER, 190-550 Khz. Similar to R-19 but has 85 Khz IF and tubes 2/14A7, 14S7, 14R7, 14F7, and 12A6. Used, \$12.95

R-22 BROADCAST BAND RECEIVER, 550-1500 Khz. Similar to R-11. Used, \$24.95

ARC-39 RECEIVER-XMITTER



RT-427/ARC-39 RECEIVER-TRANSMITTER, REPLACES COM MAND SETS; COVERS 2.0 TO 9.1 MHZ IN TWO BANDS; SIX COM-

9. MHZ IN TWO BANDS; SIX CRYSTAL-CONTROLLED FREQUENCIES PER BAND. RF OUTPUT: 10 WATTS MIN. INTO 10 OHM LOAD (100 PP). 100% AMPLITUDE MODULATION; AUDIO OUTPUT: 200 MW WITH 1000 UV 30% MODULATED INPUT: 800 MW MAX. BANDWIDTH: 8 KHZ 26 DB DOWN. METER INDICATES RELATIVE RF OUTPUT TO THE ANTENNA. WITH TUBES 0B2, 2/12AT7, 4/5749, 5750, 3/5666, 4/5814, & 3/6159. POWER REQUIRED: 28 VOC 4.4 AMPS WHEN RECEIVING: 8.5 AMPS TRANSMITTING. SIZE: 7%X104x21%; SHPG. WT: 42 LBS. PRICE: USED, COMPLETE, \$49.50 MANUAL FOR RT-427/ARC-39, REPRODUCTION, \$10.

225-400 MHZ CONVERTER



AM-914/TRC AMPLIFIER-CON-AM-914/IRC AMPLIFIA-OWN
VERTER, originally used
with military R-417 receias plug-in for the 225-400
Mhz range. Continuous tuning of RF and oscillator; R-417 recei-the 225-400

ing of RF and oscillator; 30 Mhz I.F. Unit has conversion possibilities as discussed in R. Grove's article in 10/80 issue of CQ magazine. With tubes 5670 and 4/6J4. 7½x6½x9½, 17 lbs sh. Used, \$34.95 AM-1179/GRC, 50 to 100 Mhz, \$39.95 AM-1177/GRC, 400 to 600 Mhz, \$44.50 AM-5203A/GRC, 1.35 to 1.875 Ghz, \$49.50



AM-915/GRC AMPLIFIER-MULTIPLIER, used in T-302 transmitter for 225-400 Mhz FM range. 120 watts output from two 4X150's. 12x6x14, 45 lbs. Used \$55.

AM-1180/GRC, 50-100 Mhz, one 4X150A, \$49.50 AM-1178/GRC, 400-600 Mhz; has one 4X150A and one 4X150G as power amp tubes; used, \$75.00

CV-1275/ARN (ARC B-18) DATA CONVERTER, solid-state unit processes VOR or localizer navi-gation signals; 28 VDC, 6x22x6. Used, \$30.

SCR-522 RECEIVEH-IMANSMITTER
AM CRYSTAL CONTROL, 30 WATT,
4 CHANNEL ON ANY FREQ. IN
THE 100-156 MC RANGE. IUBES
TRANS. 2/832,6557, 3/12A6,666
REC. 1/9002,9003.12C6,12H6,
3/12SG7,12A6 & 2/12AH7.
UNITS CAN BE RE-MOVED FROM CABINET CASE SEPARATEMY. REQUIRES POWER SUPPLY.
SIZE: 16½x12½x10½; WT:50 LBS. RE-COND \$34.95
CONNECTOR PLUGS,\$1.50 EA. OTHER ITEMS AVAILAB.



R-77/ARC-3 VHF RECEIVER A.M.
100-156 MC, CRYSTAL CONTROL
ON 8 PRE-SET CHAN. WITH TUBES
6/6AK5,3/12SG7,2/12SN7, I EA.
9001,9002,12A6,12H6,12SL7 &
12SH7.VOLTAGE REQ. 24 VDC &
210 VDC @ 210 MA.
SIZE: 11x7x15; WT: 21 LBS. USED \$24.50
R-5009/ARC-502 SIMILAR TO ARC-3 EXCEPT MADE
FOR CANADA. (WE WILL SHIP WHAT IS AVAILABLE)



T-23/ARC-5 TRANSMITTER, companion to the R-28, has 10 watt output, though can be modified for higher rating. Uses two 832 and two 1625 tubes. Audio power for modu-lating originally supplied by MD-7 modulator Frequency channel se-

lection made by separate C-30 control unit. Requires 24 VDC for relays and selector; 600 VDC 175 MA for HV. Size: 151x 82x52; 18 lbs. sh. Gov't. reconditioned \$25.

ANTENNA RELAY

ANTENNA RELAY UNIT for Command Sets; switches antenna from transmitter to receiver. With 2½ "rd 0-10 antenna current meter and 5kV 50 pf vacuum capacitor. 4x3½x5, 6 lbs sh. Unused. #RE-2/ARC, black finish, \$14.95 #BC-442A, aluminum, \$15.95





R-101/ARN-6 RADIO COM-PASS RECEIVER, 100-1750 KC IN FOUR BANDS WITH TUBES 6/12SK7,4/12SX7, 2/26A7,2/2050,1/12SY7 & 1/12SX7. POWER REQUIR ED 24-28 VDC. SIZE: 112x71x152; 40 LBS

Used, \$45.00 Gov't reconditioned \$65.

AS-313/ARN-6 LOOP ANTENNA ID-91/ARN-6 INDICATOR 3" PD-5/ARA-19 TUNING DRIVE AM-2038/ARA-19 AMPLIFIER USED \$15.00 NEW \$12.95 USED 9.95 NEW 8.95 AM-2038/ARA-19 AMPLIFIER USED, C-149/ARN-6 CONTROL PANEL, USED, MC-124 FLEX. TUNING SHAFT 20 IN.USED MC-203 "T" ADAPTER USED MC-136 RIGHT ANGLE ADAPTER USED USED, \$9.95 1.50



CU-308B/U ANTENNA COUPLER; USES CATHODE FOLLOWER TO COUPLE SINGLE ANTENNA WITH THREE RECEIVERS IN THE 2 TO 24 MHZ RANGE. INCLUDES THREE 24 VDC 500 OHM SPST RELAYS, 4/5906 TUBES, AND FOUR BNC

GHASSIS CONNECTORS, POWER REQUIRED: 24 VDC 180 MA. 5x52x32; WT: 4 LBS. UNUSED, \$9.95

AT-382 LOOP ANTENNA for receivers in the 190-1500 Khz range such R-23/ARC-5, R-11, and R-836/ARN-59. 9" dia loop is turned manually by use of MC-215 spline and spin knob. Has BNG connection for RF. 14x9x4, 10 lbs sh wt. AT-382/L-10, Used, \$10.95



R-836/ARN-59 DIRECTION FIND-

R-836/ARN-59 DIRECTION FIND-ER RECEIVER, same as Air-craft Radio Corp R-30A DF receiver used in light air-craft. Covers 190-1750 Khz-in bands 190-400, 400-840, and 840-1750 Khz; replaces AN/ARN-6 radio compass system. Can be tuned using push-on knob or remotely using C-8275 control box and MC-215 spline listed separately below, IF 142.5 Khz; tubes 2/5718, 5896, 5/5899, 3/5902, 2/6021, 6112. Requires 24 VDC 1 amp, 110 VDC 90 ma, 125 VDC 20 ma; also 13 V 100 Hz for loop selsyns if used for DF. Voltages originally supplied by DY-107 dynamotor (not available). 4244104, 9 1bs sh. Used, \$24.95 OFERATOR'S MANUAL, \$3. SCHEMATIC, \$2 W/set. MC-215 SPLINE, 6', \$1.50; Spin Knob, \$2.00 ID-637/ARN 3° dia COMPASS INDICATOR, \$8 W/set AC POWER SUPPLY W/speaker for R-836, our



ID-637/ARN 3° dia COMPASS INDICATOR, 38 w/set AC POWER SUPPLY w/speaker for R-836, our construction; 14 lbs sh wt, \$45.00

C-2275/ARN-59 CONTROL BOX for tuning R-836 in three bands; also Tune-to-Max meter, volume control, BFO, and Loop switches. Requires 28 VDC; 3½x 5½x2½, 2 lbs. Used \$12.

R-1250 VHF RECEIVER

R-1250/GR VHF RECEIVER, transisto ized single

erystal-controlled in the 118 to 148 Mhz AM orystal-Controlled in the list of 140 MmZ am range. Two stages RF and mixer shielded; 17 Mhz crystal IF filter. Uses CR-98-style orystal (not included). Controls for on-off/audio gain, RF gain, squelch, 600 ohm phone jack. Requires 115/230 VAC 50-60 Hz; Wilcox mfg. 12x19x8, 12 lbs sh. Unused with manual, 365.

AN/PRT-4 MINIATURE TRANSMITTER, designed to operate on two preset channels between 47 and 57 Mhz. Output 450 mw (Ch 1), 50-250 mw (Ch 2); also 150 Hz tone. Has built-in speaker and clips onto belt or pocket. Requires 12 VDC originally supplied by BA-399 battery (not available). Units sold "as-is" less antenna crystals, battery box. 2x42x2, 2 lbs. \$16.95





PAGING HORN

OUTDOOR PAGING HORN with seal-OUTDOOR FAGING HORN WITH SEAL-ed voice coil and 5" dia alum-inum horn. Rated 15 watts 8 chms. Includes mounting brack-et. 0/a 4" deep, 4 lbs sh. #BZL-0516, NEW, \$9.95

EMERGENCY FLASHER

EMERGENCY LIGHT-FLASHER-CHARGER, plugs into car lighter with 14 feet of cable and provides bright clear flasher for emer-



clear flasher for emergencies or continuous lighting for repairs, map reading, etc. Also has provision for trickle charging battery from another vehicle using an additional 5 ft cable connected to its lighter circuit. Has meter which indicates approximate charge time required. 6x4x5, 4 lbs sh. #EMERG-LFC, w/cables, NEW, \$5.00 LIGHTER CABLE, 14' as above, \$2.50; 30" \$1.

SWR INDICATOR CIRCUIT



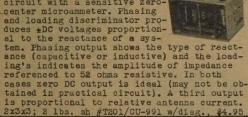
included



STANDING-WAVE RA-TIO INDICATOR
CIRCUIT, assemble
a SWR meter using this
la" square 0-10 scale
(FS=2 MA) meter with

filters and rectifiers and a modified Schering bridge. One pair of bridge arms is resistive, the other capacitive. In theory the sistive, the other capacitive. In theory the bridge circuit is balanced when the antenna is tuned to 52 ohms resistive resulting in a zero reading on the meter. SO-239 connector. Bridge: 22x22x1; 2 lbs. #M701/CU-991, \$8.95

PHASE AND LOAD DISCRIMINATOR, could be useful in tuning an antennas system, if used in circuit with a sensitive zero-



DAV WALKIE-TALKIE

DAV-2 PORTABLE TRANSCEIVER with direction-finder circuit; operates on single channel between 2.3 and 4.5

channel between 2.3 and 4.5
Mnz 2200 MW. Has controls
for receive, transmit, and
sense. Also water-tight 0.D.
plywood case, JK-26 phone
jack, connection for T-45
mic, FT-243 crystal (no frequency choice), book, and
tubes 3/354, 2/174, LR5, and
lS5. Requires 67.5 VDC 3 ma, 135 VDC 19 ma,
6 VDC 30 ma, and 1.5 VDC 225 ma. Size: 10%x
3½x10, 8 lbs sh wt. Used, \$10.95
**We will try to ship matched frequency pairs
when two or more DAV's are ordered.**

ACCESSORIES which can be used with DAV-2:
T-45 LIP MIC or T-30 THROAT MIC, used, \$4.00
CC1-49559 HEADSET ASSEMBLY consisting of
cloth helmet with headphones, unused, \$4.95
H-62 HEADSET, used, \$4.95
CW-51071 LIP MIC, used wH-62; unused, \$3.00
CC1-66081 ANTENNA, seven section 15*-85*
collapsible-telescoping, \$1.50 w/DAV purch.

MAB PORTABLE TRANSCEIVER CHASSIS, originally designed to operate between 2.3 and 4.5 Mhz on a single channel; 200 MW output. In waterproof black plastic case; mio and headset cut-off and not available. W/tubes 3/354, 2/174, 1R5 and 1S5. Requires 67.5 VDC 3 ma, 135 VDC 19 ma, 1.5 VDC 225 ma, 6 VDC 30 ma. Size: 82x 22x72; 8 lbs. sh. Used, with book, \$6.95

WW-II MINE DETECTOR



SCR-625 MINE DETECTOR SET, famous World War II unit designed to detect anti-tank mines buried at depth tank mines buried at depth up to 24". Detection indicated on meter attached to handle or audibly by the M-356 resonator. Set includes C-446 13* dia x 1" search coil, BC-1140 control, BC-1141 amplifier, M-350 handle, M-356 resonator, BG-151 bag, CH-156 transit chest, and manual. With tubes 2/IN5 and 126. Requires two "D" cell batteries and BA-38 battery (not available) which supplied 103 and 67 VDC. Units are in good physical condition, but because of their age we do not guarantee their operation. 49 lbs sh wt. Used. \$79.50 \$59.50

2-30 MHZ POWER AMP

POWER AMP/MODULATOR
DECK from T631/GRC,
2-30 Mhz transmitter
400 watts peak AM at
100% medulation or 10 100 W neminal AM-CW. Uses a 41250 in P-A, two 4X250's in modula-

41250's in medula-ter; R7 input 4 Vrms

Has 4-pesitien switch

bands 2-3, 3-6, 6-10, 10-30 Mnz

and three 0.45-18 uR veriable ribben indue-ters all driven by 26 VDC meter. Other com-penents 3-Kimae sockets and chimneys for 4X-250's, 12-Centralab 850 4 KV capaciters, and blever. Requires 26 VRO, +26 +250 +1100 -105 VDC. 62x152x132, 34 lbs. W/selematic, 32x3 390.

MIRRORED REFLECTOR



INFRARED NIGHT VISION REFLEC-TOR originally used on tanks. 23"xl6" mirrored surface fo-cuses light about 12" above center. Heat created can
"smoke" wood on sunny day.
4g fall from extreme peri-

meters to center. Surface may have scratches. Nice experimenter's item. 12 lbs, used, \$25.

SCOPE FOUNDATION

OSCIILOSCOPE FOUNDATION with 2AP1 2* dia ORT, shield, and socket plus four variable resistor controls on front panel and fixed resistor board behind panel. Does not have power supply; schematic not available. 72x3x82, 4 lbs sh. #10WG/205892, unused, \$19.95



PHANTOM ANTENNA

GP PHANTOM ANTENNA as used with WW-II 350-9050 Khz air craft ransmitters to monitor RF at remote point. Has 3%" rd 0-10 RF ammeter, 10 KV 0.0002 and 0.0005 mf GZ mice rmitting depactors, 12-nickel-plated terminal posts in 14x12x9 aluminum case w/hinged top; 22 lbs. Unused 355 \$28.

CARTRIVISION COMPONENTS





FISHTANK OF ELECTRONIC COMPONENTS, P/O VIDEO TAPE SYSTEM. CONSISTS OF DEMODULATOR, SERVO-AMP, DROPOUT COMPENSATOR, PER/POST PROCESSON DC POWER SUPPLY (115 V 60 Hz; OUTPUT -12/-12 1AMP REG, 5 VDC 1 AMP UNREG. MANY PARTS, 1C'15 FET, TRANSISTORS, TRANSFORMER VARIABLE RESISTORS, CAPACITOR MORE! SIZE 14x12x62 WT 15 \$14.95

DUAL FOOT SWITCH



TWO PEDAL FOOT SWITCH, each normally open 115 V 10 amp contacts. Switches are mechanically interlocked so that only one can be actuated at a time; interlock lever can be independent operation of easily removed for independent switches. Includes 15' 14/3 heavy rubber cable. 10x8\(\frac{1}{2}x2\frac{1}{2}\), 8 lbs. #2PED-FS unused \(\frac{3}{2}\).95

ENCLOSURES

STEEL CABINET with lift top for 7"Hx14"Wx8"D panel. 0/a 8x16*x8*, 7 lbs. #SK-CAB7148, used, \$5.95 PANEL with miscellaneous parts f/above, \$1.50

CY-2126/TRC EQUIPMENT CABINET with 115 VAC 60 Hz 5" cooling fan mounted on rear; black crackle finish. Panel space 191 Hx19 Wx14 f D; o/a 21 722 f x14%, 30 lbs sh. Unused, \$19.95



CY-1693/TRC CABINET, panel space 14"Hx19"W x15½"D; o/a 16½x22x14, 35 lbs. Urused \$18.

PYE/CAB CABINET, 16x19x14 space o/a 172x21x14 blue, used \$13.

FILE CABINET for items upto 92° wide X 84°H; o/a depth 24°.
Steel, O.D. green; 14 lbs. \$6.



CS-618S1 CASE W/ CHASSIS, 15½ "Wic"Hiz3½ "D (20"D behind panel). Some cut-outs on front; may be usable for antenna tuner or transmatch project. Aluminum; 20 lbs. Used \$12.

CS-1060 CASE w/CHASSIS, D/o small scope; o/a 8"WX72"H*13"D. Front has cut-out for 3"CRT; some parts on chassis. Handle on top; 10 lbs. Used, \$8.95



TRANSIT CASES

TS-382 TRANSIT CASE, 0/a 15x 19x152; usable space without removal of spacers 10x18 x12 Not hinged; hasp fastners.
Aluminum; 35 lbs. Used, \$14.00



CY-1338 TRANSIT CASE, 202 Wx182"H x17°D; aluminum w/side grips and hasp fastners, 40 lbs. \$16.00 CY-1342 CASE, as above but 212°Wx 182°Hx202°D; 43 lbs. \$17.50

CS-15X18 CASE, o/a 232Wx182Hx172 Usable interior 19x152x14 plus 4"H cover. Aluminum with side handles and hasp fastners. 46 lbs sh, used, \$16.00

CY-56/TX WOOD CHEST, hinged top w/hasp fast-ners; 20x13-3/8x12-5/8 with removable inter-nal partitions; handle. 18 lbs, used \$12.00



oy693/PDR-27 ALUMINUM CASE, four compartments: 3±x4, 7±x4, 1±x4, and 13x6±; may be removed for 13x10± size 9" deep. Hasp fastners; may need repainting. 12 1bs. Used, \$6.00

CY-3157/USM-144 TRANSIT CASE, three ply wood and sluminum construction w/hasp fastners; 194x134x134, 32 lbs. Used \$12.



CY-1451 SPARE TUBES

CASE w/hasp fastners.
Removable insert has space for 7- and 9-pin mini tubes and two 4X/4CX power amp tubes. 41x10x32, 4 lbs sh. Used, \$3.50 CY1091/PDR ALUMINUM CASE, compartments like x72W and 221x72W; o/a 142x72x92H. Cover hinged w/fastners and top handle. 11 lbs. \$7.

MOTOROLA MOBILE RADIO CASES, olive-drab "30-D" style; 152Wx6Hx172D, 34 lbs sh wt. W/key; used, \$14. Specify: #CS-XT/MRC xmitter case with

18-pin connector or #CS-REC/MRC case with 28-pin connector.

ALUMINUM CHASSIS, used: #CH-6B23, 121x92x5, 32.50 #CH-6B17, 17x13x4 4 lbs \$5.



U.H.F. RECEIVER



R-48/TRC-8 RECEIVER F.M. 230 TO 250 MC. ONE BAND VARIABLE

ONE BAND VARIABLE
TUNING, VOLTAGE REQUIRED 115/230 60 CYC
WITH SPEAKER, PHONE
JACK, SQUELCH CIRCUIT
2½" METER FOR CIRCUIT
CHECKING. WITH TUBES 8/6AG7, 1/9002, 1/5U4, 1/
6V6, 1/VR-150, 1/6N7, 1/6SN7, 1/6AL7. SIZE: 20x
19x16; WT: 75 LBS. USED \$45.00

CV-89 FS CONVERTER



CV-89/URA-8 FREQUEN-CY SHIFT CONVERTER. audio frequency con-version type with 2BP1 CRT. Shifts

2EF1 CRT. Shifts
10-200 Hz © 1 Khz center frequency; 200-1000
Hz © 2550 c-f. Maximum keying speed: 60 wpm
for single channel. Teletype output 60 ma
DC loop © 70 V. Two AF inputs, one for narrow
one for wide shift; each 600 ohms ct, 60 uW
to 60 mW input power. Requires 115 VAC 60 Hz.
5½x17x21, 55 lbs sh wt. Used-reparable, \$85.
Flanges for rackmount use, \$5 additional.
Manual, partial repro, \$10. Power conn., \$3.

CV-116/URR FSK CONVERTER for use with receivers having final IF's from to 510 Khz such as



450 to 510 Khz such as R-220, R-368, R-390A and SP-600. Converts frequency-shift signals into DC pulse that key the energizing circuits of teleprinters; translates at 100 dot Hz/sec. Unit can be used with two receivers. Channel A IF center frequency 50 Khz; channel B, 29.3 Khz. Input FS range 150-1000 Hz, 100 uw minimum; 50 ohm impedance. Separate control unit required between CV-116 and teleprinter to match output-input signals. Requires 115 VAC 60 Hz. 82x17x18; 80 lbs sh. Used, reparable, \$100. Manual, partial, \$10.

REMOTE SIGNALLER

REMOTE SIGNALLER RECEIVER & TRANS-MITTER, intended use was fer the transmitter to be actuated by telephone bell a telephone The transmitter would then sig-



nal the receiver via the power line and actior other appliance could be connected. Maximum outlet load 200 watts. Transmitter has mum outlet load 200 watts. Transmitter has telephone pick-up coil, op-amp, and tone oscillator. Receiver has 567 tone decoder eircuit and triac control circuit for the outlet. Each has On-Off switch, 5% cord, and measures 3:4:11; 3 lbs sh. Schematic included, may need minor repair. #RMS-R/T, \$8.95

PRD-1 DIRECTION FINDER

R-395/PRD-1 RADIO DIRECTION FINDER 100 Khz to 30 Mhz AM-CW-ICW in seven bands; FM over 12.5-30 Mhz. 34 Khz bandwidth. 100 Khz crystal calibrator for bands 1-2-3 (100-1200 Khz), 1300 Khz bands 4-5 (1.14-5.8 Mhz), and 4000 Khz bands 6-7 (5.5-30 Mhz). Has two tuned RF amplifiers using two 64K5's. Also 7/1U4, 1R5, 2/1U5, 6C4, 3Q4, and 3A5. Designed to be used with diamond shaped AS-536 and AT-301 antenna which mounts on receiver's top. Requires 1.5,

which mounts on receiver's top. Requires 1.5, 6.3, -6, and 90 VDC. 18 x13x13x13x13x1 64 lbs net, 75 lbs sh wt. Used, reparable, \$105.00 MANUAL, partial repro, \$12. Schematic only \$3



DY-79/PRD-1 DYNAMOTOR POWER-SUPPLY, fits and plugs into bottom of R-395 and provides all the voltages for the re-ceiver from 24 VDC 7 amp input 10x14x17, 38 lbs sh. Used, \$35 Power input connector \$3 w/set

FACSIMILE TRANSCEIVER



STEWART-WARNER MODEL 180 DATAFAX TRANSCRIVER, facsimile machine designed

simile machine designed to send and receive printed matter and images ever telephone lines or private wire. Produces upte six shades of gray.

Drum seanner speed: 180 RPM;
6 minute transmission time for Egril message. Receives 1500-2500 Hz signal;
2150 Hz required to activate demodulator. Select manual or automatic speration medes. Uses 200' rells of fausimile paper (net available). Units tested for basic send-receive; same adjustments may be necessary. Schematic & info packet included. Requires 100-127 VAC 60 Hz. 16x12x21, 70 lbs Used, \$778 \$125.

WW-11 VEHICULAR RADIO

BC-620 TRANSCEIVER, part of SCR-509-510 radio set as used in World War II vehiccular communications. Re-

cular communications. Receives and transmits over 20-27.9 Mhz FM range on any two of 80 different crystal channels spaced 100 Khz apart. Transmitter output: 1.2 watts. Has tuning meter and tubes 1LC6, 1LH4, 4/1IN5 2/1291, 1294, 4/1299. Uses FT-241 crystaltype (not included) and requires.1.5 VDC 0.7 amp, 90 VDC 45 ma, 7.5 VDC 0.3 A, 150 VDC 45 ma. Size: 12x162x212, 40 lbs. Used, \$59.50

CS-79 BATTERY BOX for manpack use of BC-620 or BC-659; 17 lbs sh. Used, \$6. Unused, \$10. SCR-509/510 MANUAL, \$7.50 SCR-609/610 (BC-659) MANUAL, \$7.50 TS-13 HANDSET, \$10.00 with purchase of set.



RT-252/TRC-27 MICRO-WAVE TRANSCEIVER,
4400-5000 Mhz pulseposition modulated,
continuously tunable.
Converts video channel pulses into RF for transmission and

for transmission and receives RF and convideo pulse. Receiver IF: 60 Mnz; 10 Mnz bandwidth. Noise figure: 13 db. Has AGC and AFC. Transmitter uses video amplification and plate modulation of planer triode type RF oscillator. With tubes 2K22 Klystron, 6280 planer triode, 13/5654, 5670, 5726, 5727, 5814, 2/12AT7, 2/6X4, 6AU6, 3/0A2, 5935, and 3/6AQ5, Power required: 115 VAC 400 Hz. Size: 142x25x112, 75 lbs. sh. Used, \$150.

RT-5010 TRANSCEIVER



RT-5010/PRC-510 CANA-DIAN FORTABLE TRANS-CEIVER, Canadian version of U.S. RT-176A/PRC-10A transceiver. Covers 36-54.9 Mhz FM continuously tunable. Transmitter power output 900 MW with normal range of about five miles. Microphone input 150 ohms. Controls for volume, tuning, squelch, pointer adjust, and dial lock. Can be used with either U.S. or Canadian versions of H-33/PT handset. With tubes 9/5678, 1AD4, 2/5672, 3/5676, 5A6. Requires 135 VDC, 67 V, and 1.5 VDC. (BA-279 battery see page 18.) Units shipped less 4300 Khz calibrator crystal which is not essential for operation. 92x3x102, 9 lbs; used-not checked, \$20.95

RT-5009/PRC-509 CANADIAN TRANSCRIVER, same as RT-510 except 27 to 38.9 Mhz FM; similar to U.S. RT-1754/PRC-9A. Used, \$22.95

AT-5001/FRC WHIP ANTENNA, 11"-47"L, \$3.00 ea CY-5007/FRC BATTERY BOX, \$3 w/set purchase. H-33/PT (U.S.) HANDSET, \$10.00 MANUAL for FRC-9A,-10A (U.S.), \$7.50

3.7-4.17 GHZ WAVEGUIDE



COFPER WAVECUIDE, 2*xl* size for the 3710 to 4170 Mnz range; Western Electric manufacture, removed from telephone installations. Filters are tuned to preset frequency; adjusting screws can be reset to desired frequency. No further information available.
#1301-Series FILTER with four adjusting screws; 10½* length, \$24.95
#1303-Series FILTER, two top and two side adjust screws; 6-11/32*I, \$17.95
#1300-Series FILTER, one top and one side adjust screw; 3-5/32*I, \$12.95
#400-Series TUNER, two ½* dia adjust screws; 2½** long, \$14.95
#ED51566-30 TUNER/TRANSDUCER, two ½** dia adjust screws, one 3/8** dia acrew port; 2-7/8** long, \$16.95
#J368330K1 KMTR AMPL, dual sec-

#J368330K1 XMTR AMPL, dual section 2-5/32" and lim variable internal port; o/a 41°L, \$19.95

#ED63919-31 AMPLIFIER with 416B tube with 3/8" dia screw port adjacent to tube grid cap; assembly silver-plated brass. 0/a 52x32x1-3/8, 4 lbs sh. \$27.95 Mating 6-prong connector, \$2.00

COLLINS RECEIVERS

R-389/URR VLF RECEIVER, Collins mfg, covers 15-1500 Khz AM-CW-MCW in two ranges, 7 bands.
455 Khz IF; selectivity
100 Hz-8 Khz in five

steps. 4-place mechanical digital tuning and autotune; 39 tubes. Sold "less Line and Carrier Level meters". 115/230 VAC 50-60 Hz; 102x19x172, 90 lbs. Used-reparable, \$250.00



R-388/51J3 COLLINS RE-CEIVER, 0.5-30.5 Mhz AM-CW in 30 bands, one Mhz/band. Wide 6° lin-ear scale; 500 Khz IF. 5-step orystal select-ivity 0.2-6 Khz; 100 Khz calibartion points Requires 115/230 VAC 50-60 Hz; 10*x19x13, 55 1bs sh. Used-reparable \$265. Checked \$330.00

CANADIAN TRANSCEIVERS

CRT-1/CPRC-26 CANADIAN PORTABLE TRANSCEIVER, six channel unit for use in the 47 to 55.4 FM Mhz

six channel unit for use in the 47 to 55.4 FM Mhz range. Receiver consists of RF amp, xtal oscillator, mixer, 4/IF amps, limiter, discriminator, and audio amp. Transmitter has master oscillator, modulator, power amp w/384. Uses tubes 2/3B4, 5/1AD4, 5672, and 3/5678 all of which are in sealed plug-in modules except the 3B4's. Modules are reparable Receiver sensitivity about 2 uv, deviation 15 Khz. Transmitter output 300 MW. Receiver requires 1.5 V 550 ma 45 V 12 ma, 90 V 30 ma; transmitter 1.5 V 850 ma, 45 V 8 ma, and 90 V 30 ma. (Battery not available.) With battery box but less crystals. 0/a 3342x102, 5 1bs ah. Used, \$12.95 accessories for GFRC-26: SCHEMATIO, \$1.50 AT-5001/FRC ANTENNA, collapsible with flex base; 11"L folded, 47" extended. \$3.00 ea. GP-1/FRC COUNTERPOISE, rubber insulated 4 ft long wire w/split pin plug; use as counterpoise and/or trailing wire antenna. 2/\$1.50 GAN-H33/FT HANDSET, like U.S. H-33/FT but with Canadian plug; \$8.95 with set purchase. H-5002/FRC HEADSET, one 300 chm element, \$4. MODULE SPARES, unused; specify RF OSCILLATOR, IF AMP, MODULATOR, AF AMP --\$1.50 ea, 10/\$10

BC-683 FM RECEIVER

BC-683 FM RECEIVER, designed for 27 to 38.9 Mhz using ten push-button preset channels, or continuously tunable. Has built-in speaker; requires 220 VDC 80 ma, 12/24 VDC. Part of SCR-608-628 radio set. 112x6\frac{2}{2}12\frac{1}{2}; 40 lbs ah. Used, less dynamotor, \\$54.95



BC-603 RECEIVER, same as BC-683 except 20 to 27.9 Mhz; p/o SCR-508-528 set, WRITE BC-604 TRANSMITTER, companion to BC-603; 70 lbs sh. Unused, less dynamotor, \$25.00 lbm-35 12 VDC dynamotor for BC-604-684, WRITE MANUAL for SCR-508-528, original, \$7.50

BANDPASS FILTER





F-237/GRC BANDPASS FILTER, designed to operate from 54 to 70.9 Mhz using dial tuning. Bandwidth: 250 Khz @ 3 db points or 4.5 Mhz @ 40 db points. 50 ohm output and input impedance. Unit consists of a 3-gang variable capacitor coupled to 3 sets of three sealed cavities. Type C connections. F-237 has conversion possibilities for 6- and 2-meter amateur apllications. An article about these by W. Tucker, W4FXE, appeared in 12/80 issue of Ham Radio. 5x112x11, 17 lbs. \$19.95

CODE PRACTICE SET



AN/GSC-1 CODE PRAC-AN/GSC-1 CODE PRACTICE SET designed for student practice of Morse code, accommodating upto 10 keys. Hand keying produces either an audio tone with adjustable volume and pitch or a blinker flash. Has effective range of

effective range of 40 ft. if background noise is less than 60 db Can be operated from 6, 12, 24, or 115 VDC or 115/250 VAC. With built-in speaker, blinker, volume and pithh controls and tubes 6X5 and 2/6AK6. Keys not included. 132x18x11; 58 lbs sh. Used, \$14.95;

BENDIX TRANSMITTER

BENDIX TA-12B TRANSMITTER, 40 WATTS OUTPUT CW, MCW, AND PHONE FROM 300 TO 600 KHZ AND 3000 TO 7000 KHZ. EACH OF THE FOUR CHANNELS HAS ITS OWN OSCILLATOR, OSC. TUNING, AND LOADING. 0-5 RF AMMETER MONITORS



ANTENNA CURRENT. WITH
TUBES 4/12SK7 AND 3/807. ORIGINALLY USED
WITH MP-28B 24 VDC 15 AMP DYNAMOTOR-MODULATOR (NOT AVAILABLE). POWER REQUIRED: 24 VDC
3 AMPS, 260 AND 400 VDC EXTERNALLY MODULATED.
SIZE: 102x15x11; WT: 40 LBS. USED, \$39.50

BANDPASS CAVITIES



F-240 (67-76 Mhz) F-241 (76-84 Mhz)

FULL-LENGTH TWIN-CAVITY
BANDPASS FILTERS, 9-1/6"
length; gold-plated. Similar to filters described in
WHFXE's article in 2/80 Ham
Radio Magazine. 8 lbs sh
wt. \$22.00 each
F-192/U (100-121 Mhz)
F-239/U (58.5-67 Mhz)
F-248/U (84-92.5 Mhz)
F-248/U (92.5-100 Mhz)

SHORT-LENGTH twin-cavities, \$17.50 each.
F-195/U (163-184 Mhz) F-201/U (284-314 Mhz)
F-196/U (184-205 ") F-202/U (314-344 ")
F-199/U (224-254 ") F-203/U (344-374 ")
F-200/U (254-284 *) F-204/U (374-404 ")

TA-I/PT TELEPHONE

SOUNDPOWERED TELEPHONE SET WITH AUDIBLE AND VISUAL CALL SYSTEM.
PALM OPERATED GENERATOR PUTS
OUT APPROX. 100 V. THAT SOUNDS
BUZZER IN OTHER PHONE AND ACTUATES VISUAL INDICATOR.
COILED CORD WITH PUSH TYPE
BINDING POSTS FOR INTERCONNECTING WIRES TO BE

FASTENED TO. COMES WITH FIBER CARRING CASE. SIZE:82x32x32; WT: ACT 2LB USED \$25.00 EACH

TRANSISTORIZED CRYSTAL
OSCILLATOR and BUFFER,
56 to 99 Mhz with 75 C
temperature control



temperature controlled oven. Requires 5th overtone HC-6 (20 pf) x-tal (not incld). Has external oscillator input and tuning meter and oven output. Requires 12-18 VDC reg. for osc., 22-39 VDC 1 amp for heater. W/BNC and two submini 27 (UG-1465) connectors, power input DEC 9P connector, and schematic. 62x2x31, #0SC99828, \$8.

LS-184 SPEAKER

LS-184/AIC-10 LOUDSPEAKER with LS-184/AIC-10 LOUDSPEAKER with AM-492 amplifier. 5° blast-proof speaker is rated 5 watts; 5.5 V input for 1 W output 300-6000 Hz. Input impedance approx 900 ohms. Amplifier uses four 5178 tubes parallel push-pull. Transformer coupled input and output. Requires 27 VDC 150 ma and 170 VAC 30 ma. DPDT switch requires wiring. 7½x8½ x4-1/8, 5 lbs sh. Used, w/schematic, \$22.95

FL-8 AUDIO FILTER



1020 HZ AUDIO FILTERS, can be used to reduce interference in CW and audio signals for receiow and audio signals for receivers. Each filter provides a sharp null at approx 1020 Hz in voice mode while frequencies near 1020 Hz are passed in "renge mode. Response can be

broadened by placing a variable resistor from input to output. Terminal strip connec-tions. 3-1/8x3x15, 3 lbs sh. Used, \$4.95

F-90 AUDIO FILTER, similar r-90 AUDIO FILTER, similar to FL-30 except has sharper filter action. Designed for aircraft panel mount; has one 28 V panel light and schematic. 5 x2 x2 x3 , 3 lbs sh. MATING CONNECTOR for F-90, \$2.50



Used, \$3.95



RD-60/U CODE RECORDER OF RADIO TELEGRAPH CODE SIGNALS. USES 3/8 WIDE, 800 FOOT ROLLS OF PAPER TAPE. RECORDS CODE SPEEDS UP TO TOOO WORDS PER

MINUTE WITH A RECORDING TIME OF 26 MINUTES (LOW) OR 13 MINUTES (HIGH). INPUT SIGNAL FREQ. 500 TO 5000 HZ. INPUT IMPEDANCE 500 AND 5000 OHMS. OUTPUT IMPED. 6 OHMS.

WITH 9 TUBES. POWER REQ. | 15 v. 60 Hz. size | 19x16x12%; wr: | 150 LBs.

Used-reparable with cabinet, \$24.95; BOOK \$5. Gov't reconditioned with cabinet, \$32.95 PAPER TAPE for RD-60, \$1.00 ea; 20 rolls, \$10

HEAVY DUTY TRIPOD

MT-3806/PFS TRIPOD, aluminum unit eriginally used to support field radar but would probably make a sturdy base for a large format camera or other item with some medification. Each 12" dia x 24" leg helds 1" dia x 22" telescoping section w/4" dia cleated foot. Legs can be retated 180 se equipment can be meunted upside down. 48" max heighth; no center column. Includes remevable 9x6x4 canvas peuch. 8 lbs. sh; unused, \$32.95

8 OHM 400 WATTS

POWER LOAD RESISTOR PAIR, lg X 14" dia; usable for audio when non-inductive loads are not required. Includes mounting brack-et; 3 lbs. #RES-8-400FR,



DALE 8 OHM 100 W 5% RESISTOR, 62x2, \$2.00 ea 2 OHM 200 WATT SLIDER ADJUST, 102x12, \$1.95

LANGUAGE LAB RECORDER



LANGUAGE LAB TAPE RECORDER, solid-state design; made by General Electronics Lab. General Electronics Lab.
Has three heads: one play-back only master head on one track and the other two, playback and record, on a

back only master head on one track and the other two, playback and record, on a second student track. Uses standard I" audio tape on upto 7" reels at speeds 3½ and 7½ ips. In practice, one can monitor the master "instructor's" track while recording responses on the student track. The student track can be played back simultaneously or separately from the master track depending upon control selection. The master track, which plays in one direction only, can be recorded upon or erased by switching plug-in wires from the student track heads. Besides its original usage, the recorder could be useful for code practice of for sound-on-soun sound audio experimentation. Audio response approx. 300-8000 Hz. Controls for student and master volume, playback-practice select, pause, and the other standard recording functions. Also three motors for very rapid fast forward/rewind, audio level meter, footage counter, 4" built-in speaker, and four plug-in circuit cards for audio, master audio, student audio, and bias oscillator. Uses common 2N2836 and 2N3702 transistors. Tape and reels not included; microphone and schematic not available. Requires 115 VAC 60 Hz. 18x16½x8½, 36 lbs sh. Schematic included. Used, reparable, \$19.95; Checked, \$45.00 18x162x82, 36 lbs sh. Schematic included. Used, reparable, \$19.95; Checked, \$45.00

TELEPHONE TEST SET



I-142/PTM-6 TELEPHONE TEST SET, measures characteristics of telephone and related equipment

and related equipment including these operations: 1. Sound source for mics and receivers; 2. Efficiency test for mics and receivers; 3. Capacitor test; 5. Ringer test; 6. Insulation test; 7. Dial test indicating percent of pulse period; 8. Continuity test; 9. Instrument tests such as 600 ohm circuit for sound-powered equipment; 24 V. DC-AC res. circuit for common battery phones; impedance matching circuits for carbon and magnetic mics and receivers. Meter has scales -10 to +6 DB and 0-100 VDC. Requires external batteries for 3, 12, 24, and 135 VDC. Batteries not available. 19x12 x9, 46 lbs sh. I-142, used, \$59.50 x9, 46 lbs sh. I-142, used, \$59.50 TS-903/PTM-6A, more recent; 65 lbs., \$65.00

FIELD PHONE-CONTROL SET



C-2172/GRC-14 FIELD REMOTE CONTROL SET;

REMOTE CONTROL SET;

DESIGNED FOR USE WITH

AN/GRC-14 RADIO GROUP

IN AM, PHONE, AND CW

KEYING OPERATIONS OVER A TWOWIRE 600 OHM TELEPHONE LINE.

INCLUDES 20 HZ RINGER SYSTEM

MAGNETO GENERATOR AND BELL.

WHEN USED WITH A H-33/PT

HANDSET, THE CONTROL UNIT IS

FUNCTIONALLY A FIELD TELEPHONE. TERMINALS

PROVIDED FOR PHONES, MIC, AND KEY. SWITCHES

FOR SERVICE (CW, AM, AND TEL); FSK CONTROL;

AND SIGNAL (BELL OR CALL LIGHT). SOLD WITH

H-33/PT HANDSET. POWER REQUIRED: TWO "D"

CELL AND ONE 45 VDC BATTERY (NOT AVAILABLE).

SIZE: 32x9-3/8x7-1/8; SHPG. WT: 13 LBS.

PRICE: UNUSED, WITH USED H-33/PT, 124.95

H-113/U HEADSET 600 OHM

soft PLASTIC EAR CUSHIONS 18" CORD W/ PL-54 PLUG

THAT FITS JK-26 JACK (SEE CD-307

EXTENSION CORD ELSE-WHERE ON THIS PAGE)

WHERE ON THIS PAGE) WT: 3LBS. USED-EX\$5.95

CW49505 HEADSET like

and has provision for snap-on CW-51071 lip

CW-51071 LIP MICROPHON

CW-51071 EIP MICROPHON 100 OHMS IMPEDANCE W/2 SNAPS FOR FASTENING TO H-62 HEADSET, 14" CORD W/PL-291 PLUG INTO EXTENSION CORD CD-318 LISTED ON THIS PAGE OR CW-49561 EXTEN

USED \$1.00

H-113 except black

mic listed below.



HS-23 HEADSET, 2K ohm using R-14 elements and unused grey plastic headband; 42' cord w/plug. Less cusions, \$9.25 HS-23 w/HB-7 brown headband (not U.S. mfg), 18" cord and PL-354 plug, WRITE

4" CHAMOIS CUSH-TONS for use with HS-23 or HS-33, #M301, new \$2.25 RUBBER CUSHTONS #MC-162 25" \$1.00 MX-41 25", \$1.25 HB-7 HEADBANDS: Grey \$3.25; Br \$3

CX-1334 CABLE, CW49505 to GRCequip (JK-26 jack and U77 plug, \$4.



#ZA/CAN3538 dynamic headphones, 125 ohm imped;

MOVING COIL-TYPE, QUALITY REPRODUC-TION. ADJUSTABLE CANVAS STRAP FITS ON TOP THE HEAD; STEEL-BAND BEHIND. WITH CHAMOIS CUSHIONS, MY CORD, AND PHONE PLUG. UNUSED, \$5.95

.

T-17 MIC 35 TO 90 OHM PUSH-TO-TALK: PL-68 ON 5 CORD. USED \$6.95 RE-COND. \$9.

HS-230 HEADSET w/250 ohm elements as used in HS-30; soft 35 velour cushions, leather headband, & 18" cord w/PI-54 plug. Unused, \$9.95



225 ohms with 6" stake

for pushing into

RS-38 MIC, 100 ohm carbon; w/PL-68 4' cord NEW \$8. New, not U.S. \$6.

JK-38 PHONE JACK FOR INLINE USE, TAKES TWO PI -55 PHONE PLUGS \$1 PUSH BUTTON SWITCHES FOR HANDSETS THAT USE BUTTERFLY TYPES. DIRECT REPLACEMENT. #5930-327-7308 \$1.25 H-63/U HEADSET 100 ohm; 14" cord w/plug. Used, \$9.95 ELEMENTS, phone or

CARBON MICRO-50 онм PRESS TO TALK
NO. C-3 (LEFT)4'
CORD PL-55 PLUG
UNUSED \$4.95
M-2/10A/1422 (RIGHT)41
FT. CORD PL-68 \$3.95
CO-78 HEADSET "Y"CORD
7' LG. RUBBER COVER
ND PLIUGS TERM. \$1.50

NO PLUGS, TERM. \$1.50

AN/GSA-6 CHEST GROUP headset. Includes SA-142 switch and CX-1077 cord w/U-77 plug. Used, \$8.00

SWITCHBOARD CORD 431 W/PL-47 #BD-96 \$1.50



HEAD-SET, lightadjustable rubber cushions &

250 OHM IMPEDANCE aid type weight headband 72 cord w/spade

HEADSET

CD-604 or CD-605 cord for 4000 ohm phone plug. ELI-#978 new \$3.95 Used, \$7.50



H-33/PT HANDSET PHONE 300 OHM, MIC 40 OHM W/CORD UG-77 PLUG & PUSH TO TALK SWITCH.

HS-16 HEADSET OR EQUIVALENT (SIME-LAR TO PIC.) 2000 OHMS WITH 61 "Y" CORD & METAL TIPS. Unused \$4.95

TS-9 HANDSET WITH PUSH TO TALK SWITCH (NOT BUTTERFLY) WITH 3 COND. CORD 4' AND TERM INAL LUGS. NEW COND. \$4.95

T3-13 HANDSET, push-to-talk and cord w/PL-68 & PL-55; p/o BC-659. \$12.





ments, grey HB-7 headband, 42 co and FL-354 plug. neadband, 42° cord and FL-354 plug. Used, \$15.00 HS-33 w/brown (not U.S.) HB-7, 18° cord & plug. WRITE M301 CHAM CUSHION \$2.25

H-S1/H-144 OPERATOR STYLE HEAD & MIC SET, rubber-cover elements; receive 300 ohms, mic 40 ohms. On 4 foot cord with UG-77 plug as used with GRC



equipment. Used \$14.



CX-2481 CORD, 12 ft one end PL-55, oth-er PL-68; \$1.75

PL-68 MIC PLUG 30" Used, \$1.00

JK-33 JACK TO FIT PL-68 MIC. PLUG.

Used, 3 for \$1.00

COILED

CORD SET

COILED CORD SETS

Three conductor, 24" to 72" 75¢ 12" to 36" 50¢

BRAS KEY WITH BEARINGS; ADJUST. CON-TACTS, COVER, CORD, AND PLUG. #R11950, \$4.75

M-86/U MAGNETIC MIC-ROPHONE:50 OHM IMPED. PUSH SW. LEVEL CONTROL 7' CORD. UNUSED\$14.95

T-45 MICROPHONE CARBON TYPE 1000HM 50DB BELOW I MILL-VOLT, FLAT RESPONS WITH PL-291 2 CONT MALE PLUG, 11"CORD

CD-307 CORD EXTEN Used, \$4.00 SION FOR CORDS WIT PL-54 PLUG AS USED CX-1324 CORD, 4 ft ON HEADSETS, 65"L with FL-55 each end Unused \$1.50 PL-55 PLug. Unused \$1.50

Used, \$2.00



CD-604 CORD WITH CX-2482 CORD, 6 ft with PL-68 each end Unused, \$1.65 IMPEDANCE MATCHING TRANSFORMER 5000HM TO 4000, USED WITH HS-30 HEADSET, 67 CORD & PL-54 PLUG. Unused \$1. Used 60¢ CD-605 CORD SAME AS CD-604 ONLY 30" LG. WITH PL-55 PLG

Used, \$2.00 PL-55 PHONE PLUG 30" CORD \$1.00

JK-34 PHONE JACK TO FIT PL-55 PLUG Used, 3 for \$1.

MC-385 HIGH to LOW

3-cond. In colors
18"-36"; green,
red, lt. blue 50¢
Grey or pink, 3/\$1
4000-6000mm

Unused. \$1.50



T-30 MICROPHONE
CARBON TYPE, 75 OHM
500B BELOW | MILLIVOLT, FLAT RESPONS
WITH PL-291 2 CONT
MALE PLUG, II"CORD
PRICE: ITS #4 000 PRICE: Used, \$4.00



TP-6 TELEPHONE 1940's-50's style phone with metal base, plastic handset, rotary dial, & ringer; 8 lbs. Used, \$15.



HB-1/2000 ohm elements & Y cord used used \$4



DOUBLE PLUG D178542 for headset; simi-lar to type 289 and 298. Unused \$2.50

STANDARD TELEPHONE EQUIP.

ball-style button; t gle switch for Send-

gle switch for Send-Receive. 52x22 base, canvas leg straps, and 5' cord with PL-68 plug. 4 lbs sh. #CAN-48, unused, \$8.50

TELEGRAPH KEYS

CANADIAN #48 KEY (left),

J-45 LEG IRON w/J-37 KEY with adjustable contacts. Includes 72 CD-201 cord w/PL-55 plug. 4 lbs sh. Used, \$12.00 LEG IRON only, \$4.75

All of our standard telephone equipment is sold as "used-complete" only unless other-wise noted. Some adjustments may be required so that the equipment conforms to your local telephone company's system.

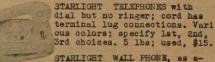


CALL COMMANDER SWITCH-BOARDS, NE-634C-1 or similar with plug; gray, green, or beige colors: 11-line 1-hold \$22.95 17-line 1-hold \$28.95



5-LINE 1-HOLD DESK SET phone style w/plug; black. \$17.95

2-LINE DESK SET phone w/terminal lug connections; black. \$16.95



STARLIGHT WALL PHONE, as above but for wall mount. Used, \$16.00 WALL TELEPHONES with dial and ringer; cord has terminal lug connections. Styles and manufacturers vary; no color choice. Used \$17.

AUTOMATIC ELECTRIC TONE KEY PAD with brushed aluminum cover; use for tone control, signaling, etc. Each key produces two tone output; characters 0 thru 9. characters 0 thru 9, *,#.
Requires 9-15 VDC. 4-3/8 sq
x 2"d, 2 lbs. With heek-up
info. #AE-WA-1127, NEW, \$9.95



FLAMEPROOF KEY

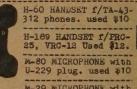
KEY, early U.S. WW-II vintage; 3-1/8x2-5/8x3/8 phenolic base. Eall-style but-



brass adjust-able contacts, ounted on akelite base "x6"x 3/8" with cord. Without base, \$6.

J-38 KEY, like J-37 except w/ shorting bar; 42x3 base. Used \$10

JEN-20 HANDSET W/AMPLIFIED receiver for the hearing impaired; Black, white, or beige. NEW \$15.



M-29 MICROPHONE with U-77 plug. used \$5



HEADSET CUSHIONS 4" DIA.

HANDSET 4" DIA. f/older \$2.25 PR style handsets Used \$3.





GENERAL TIMERS TM-506 to right, 0indicator 10 volt

60 hz. mo-tor repeat cycle used 55.50 TM-229 same as above, no face plate, knob or dial. For seconds oper. max. U 34.

MER BONANZA

CARTRI-VISION TIMER CONTROL, 60 Hz mo-tor w/SPDT upto 8 hi



delay. Also 18 V 200 ma transformer, 12 VDC SPDT relay, SPDT & 4PDT center-off slide switches, trans-istors, rectifiers. \$1.35



STOVE TIMER CLOCK MECHAN-ISM w/startstop control dials. Grey

face 5x4; style may vary. 115 VAC 60 Hz w/switch rated 230 VAC 30 amps. Knobs not original, but usable. 2 1bs; #Q155760, \$3.50

BAGS, STRAPS AND COVERS, MAY BE USED

OR UNUSED. ALL ARE CLEAN WITHOUT TEARS. SHOULDER STRAPS ARE ADJUSTABLE AND MADE OF COTTON WEBBING.



CW-TRB ROLL BAG for tools, etc.; folds to 17"Ix8½ "W. Used, \$5.00

CW-189 BAG w/ strap; 10*Hx 92*Wx8*D. Minor tears, \$5.

BG-1942 BAG, AS ABOVE WITH STRAP CLOSE COVER AND 8"HX 8"Wx22"D, \$2.50

BG-56 ROLL BAG for MS-49 thru -54 mast sections; no tears. Used, \$6.50

MAST BASE COVERS, unused: BC-108, for MP-48, \$3.00 BC-67, for MP-37-57, \$2.75

ST-19 CARRYING STRAP, 65" LG. X 2"W; w/2" swivel-eye snap hook and tongueless-bar buckle near one end To adjust length. \$3.00

ST-42 CARRYING STRAP, AS ABOVE, NO SWIVEL, \$2.50

ST-54 CARRYING HARNESS AS USED WITH BC-1000 TRANSCEIVER; 382" EXTENDED LENGTH, 14" WIDTH. ADJUSTABLE STRAPS AND SNAP HOOK, \$3.

ST-120 HARNESS FOR PRC-8-9 -10 RADIO SETS. SIMILAR TO ABOVE, SAME USE, \$5.00

CW-216 CARRYING BAG F/PRC ANTENNA AND H-33 HANDSET; COMPARTMENTS FOR EACH. 0/A 19" LONG WITH TOP 5" WIDE TAPERING TO 3" WIDE AT BOTTOM, 3%" DEEP, W/SNAP COVERS AND HANGER FOR AMMO BELT, \$6.00

CW-206 ROLL BAG FOR MS-116 SERIES MAST SECTIONS. COM-PARTMENTS FOR GRC-SERIES SET ACCESSORIES. SNAP AND WEB STRAP CLOSURE. 0/4 40" LONG, 3"HX5"D. Unused \$8.





INDUSTRIAL TIMERS, 115 V VAC 15 amp contacts; Unused: EAGLE SIGNAL #175-0-100-13 15 sec delay, 0-100% dial set; 32x32x5. \$19.85 \$15. CRAMER 412E, 32" dia x 52" 30 min \$12. 60 min \$12.50

TIME-O-MATIC SIGN CONTROL, 115 VAC 60 Hz. THREE CON-TACTS RATED 15 AMP EACH. TWO ALTER-NATELY MAKE AND BREAK ONCE PER SECOND FOR 15 SEC; other Breaks for 20 sec. at the same Time. Then all three Make and the cycle repeats Size: 3x54x6; Shpg. wt:-5 lbs. #53 k-155, \$4.95



KEY SELECTOR CONSISTS OF MANUAL CLOCK MECHANISM FOR SENDING 17 IM-

PULSES, CAN BE STATIONS, SPST LEVER SWITCH 2x22x42: 4C5100.60A \$1.50

SYNCHRON CLOCK
MECHANISM, No.610
110 v. 60 cycle
3 watt I RPM #EC129RB, With GEAR
ASSY, NO RESET OR
COVER. 2x2x21; 4oz. \$1.35

SYNCHRONOUS MOTOR, 26 volt 60 cycle, 60 rpm, shaft 1x 1/16, motor 12x22 #1147 \$2

MOTOR DRIVEN RELAY SPST norm. open 115 v. 60 hz. 10 amps. cont. motor 115v 60

hz. non. sync.
3.8 w. 4/5 rpm. Cams can
be set to set to make cont
30 to 60 seconds. Also has provision to bring out a shaft. size 22x4x2, 1 lb. #N17R-68292 unused \$6.00

CRAMER TIMER SWITCH ASSY.
Model TC-60SEC, 230 v 60
cyc, switch 5 amp. cont.
3.8 w. 4/5 RPM motor.\$1.95

THERMAL SWITCH opens 30 sec. after cooling. Operate 130 vac. 2m ohm res. 12x12, 20" leads. M-4199 \$1.50

AUDIO OSCILLA-TOR ASSEMBLY, originally in circuit with 2 6SJ7 tubes to produce 425 to 2295 Hz output



in 12-steps of 170 Hz. Has 24/12 pf trimmers and 21 temperature compensating capacitors and resistors. Use as basis for homebrew oscillator. 5 tx 5x4 t, 5 lbs. #OSC-DIV3499, \$6.95



AS-207/CRT-3 ASSY w/300 #16 strand braided cadmium alloy copper wire on RL-48 reel and crank; mounted to aluminum door w/ad-

justable brake and snap swivel. Part of CRT-3 xmitter antenna which attached to kite or balloon. 2x4 dia, 3 lbs.
No door-damaged reels, 6.95
Wire only, \$4.95



HONEYWELL HUMIDIFIER CON-TROL as used on home humid-ifiers. Plastic element tape senses 10%-70% humidity and closes normally open 120 VAC contacts depending on setting of variable control. Shaft lxt dia; o/a lx lxxt. #H46Bll50 NEW \$1.95

RECORDING TAPE



MAGNETIC TAPE FOR MOST AUDIO RECORDERS, 10% RECORDERS, 10% REEL; & WIDTH APPROX. 3600 F LEADING MANUFA TUERS. WT; 2 LB AST3045 \$1.50 4 FOR \$5

FIXTURE for RV van or trailer Automotive double contact lamp socket for

OVERHEAD LIGHT

6-12-24 VDC 25W max lamp; also 52x22 diffuser lens. Outer 82x5; fits in 7x32 x32. 4 lbs. #174-OL NEW \$4.

HEATING ELEMENTS

ROUND HEATING ELEMENT, 6"
OUTER DIA., 38" INNER DIA.
THICK. 118 VAC 500 WATT.
NUT TERMINALS. #HSW-6, \$3.

BRYANT STRIP HEATING ELE-MENT, 120 VAC 150 watts;
12"W x 8"L including mounting flanges. 2 lbs sh. #6115-931-7883, NEW, \$2.95 LOOP COIL TYPE, 9" LONG: 115 VAC 30 W. #83975, \$2.00

DOUBLE 'U" LOOP COIL, 3"
HIGH. 115 VAC 1000 WATT.
CHROMALOX #2111-2, \$2.50



LONG DURATION
TIMER WITH 115V
RESET RELAY.115
60 HZ 1/16 RPH
MOTOR. CAM ACT-

UATES SPDT MICRO SWITCH. 31x210. UNUSED \$2.95



ILLUMINATED CLOCK MECHAN-ISM AS USED ON CLOCK RADIOS. CLEAR PLASTIC

FRONT TO TRANSMIT LIGHT, NO HANDS. HAS 60 MIN TIMER ALSO MAS ON-OFF-AUTO ALARM 2"SQ FACE. 115V 60 Hz. SH WT 2 LB. UNUSED \$1.50



45 gears and 20 other gears 1 to 11 dia on bronze bearings 4x7x41, 5 lbs#TUN/ARC45 \$5



TIMER SPRING WOUND closed when unit is wound, opens at the end of time. 30 minute 115 volt amp. Lux#2500 \$3 minute 120/240 vac amp. Rhodes 65b \$4



MN-40 INDICATOR 0-360 DEGREE SCALE SIMILAR TO ABOVE EXCEPT THAT IT I OPERATED MECHANIC LLY BY USE OF A SPLINED FLEXIBLE

SHAFT OR SPIN KNOB OR MN-40 INDICATOR 5" MC-124 SHAFT 20" MC-124 SHAFT 20" MC-137 SPIN KNOB

PARTS GALORE



TELEMETER PROGRAM SELECTOR part of an obsolete pay TV system which featured prerecorded tape program review, coin deposit register mechanism, and audio ampli-fier-power supply with 4* speaker. Generates 8 Mhz signal to trigger mechanism and 35 Mhz video output.
Tape magazine has recording head and plays 66' of 1" tage in continuous loop.
Mechanism has 5 RPM Cramer
115 VAC motor plus other motor, gears, etc. Fower supply output 150 VDC-100 ma and 6.3 V 3 emps. Tube line-up 3/6U8, 6BE6, 6EA8, and 12EH7.

Cabinet 15x7x7, 21 1bs sh. Our bargain price is worth

the tape magazine, coin mechanism, power supply, or tubes alone. NEW, \$6.95



ID-718/ARN DUAL AZIMUTH RADIO COMPASS INDICATOR, 3" dia 360 degree scale in 2 deg

increments. selsyns 26 V 400 Hz Has two 12 V 60 Hz; usable in 9/79 OST antenna position project. 61 D. Unused \$18.



MC-507 SELSYN-INDICATOR, transmitter unit usable in wind di-rection and beam locater systems. Has 3" dia 0-360° scale VAC 60 Hz

5° steps; 12-24 VAC 60 Hz req. 2 lbs. \$8.95 2/\$15.



I-91(*) RADIO COMPASS INDICATOR
C" 360 deg. ac.
used w/ARN-6 sys.
3;"x3".(can be us
used with wind

direction system)
used \$9.95 NEW \$14.95





for QST antenna position project. I-81, 5 markes, used \$8.95 I-81, 5 mark ID-637/ARN, 2 marks VAR knob, unused, \$10.95

I-101 CROSSPOINT INDICATOR, 3" dia f/glidepath broken glass \$3.



SWIVEL CASTERS

SWIVEL PLATE CAST-ERS, 3% dia X 7/8" wide wheel with 3% x2% swivel mounting plate; from computer equipment. 2 lbs. #SW-CAST, \$2.50 ea; 4/\$8.00

STUD MOUNT CASTER, similar to above but has 2* long X 1* dia threaded stud in-stead of mounting plate. #STM-CAST, \$1.75 ea; 4/\$5.



ID-68/APA-44 AIR SPEED IND-ICATOR; CONTAINS A KOLLSMAN TRUE AIR SPEED METER AND A INDICATING WITH A RANGE OF 84 TO 434 KNOTS. HAS OSTER MOTOR AV-240, RELAY, 1/6AK5 TUBE, COMPENSATING DEVICE PLUS MAILY OTHER COMPONENTS. 15x72x5; 20 LBS. USED \$15.



form and end

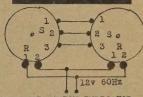
TIMER, times from 2 to 60 seconds; bell signals time elapsed. 3" dia plastic case; 1 lb sh. #56414, NEW, \$2.50 each.

RHODES 60 SEC

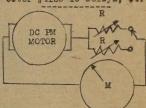
ROLLER INDUCTOR 1.3 uHy, 55 turn #12 wire forms 1 L X 2ª dia coil; 3/8x2ª dia shaft. Ceramic

plates. 0/a 5x3x4, 3 lbs sh. #939-15-SM, used \$5.95

WIND SPEED



WIND DIRECTION INDICATOR using Oster 4123-10 selsyn listed on page 17. Design your own wind vane and in-dicator so that you can monitor wind direction from inside your house.
Oster #4123-10 selwyn, \$4.



WIND SPEED INDICATOR using a 24 VDC FM motor as a generator, a 1 milliammeter and a resistor range soaler so that wind speed can be monitored indoors. We will supply the FM motor and a 35° rd 0-1.0-50 scale (FS-1 ma) meter; you design the rest.
#WS-MOTOR & METER, \$7.95



AY-1 AUTOSYN MOTOR AS USED IN 1-81,1-82 ETC. DIRECT REPLACEMENT. \$5.95

1-81 & 1-82 ARMATURES ONLY #3H2716/A1, UNUSED, \$3.95 1-82 GLASS ONLY, \$2.00

SMALL INVERTER SUPPLY



TRANSISTER INVERTER POWER SUP-PLY, input 24 VDC 500 ma; out-110 VDC 60 ma. Can be used put 110 VDC 60 ma. Can be used to supply B+ for low power tube type receivers. Transformer has 286 VCT 70 ma secondary. Other uses possible with modification Reduced output at lower input voltages. Schematic included.
321372, 2 lbs ah. #522-1091-004, used-checked, \$9.95; used-defective \$4.95.
DA-15S PLUG to fit above inverter, \$1.50 ea.

45 KW GENERATOR CONTROL

United Electric #2K3890 for 45 KW 208-416 VAC 5 AC 50-32" rd C, 0 to for 45 KW 208-416 VAC 50-60 Hz installation; 3½" rd meters for 0-450 VAC, 0 to 125% full load, 0-60 KW, & 48-62 Hz (reed-type); also voltage, frequency, and governor adjusts, AM-VM selector, On-Off Parallel Operation, AC Cvervoltage Reset, and Field Flash Voltage button. 222x182x62, 56 lbs sh. Unused, \$125.00





N640054

N11006A

NORTH ELECTRIC MODULAR POWER SUPPLIES, stable solid-state units removed from equipment. All 115 VAC 60 Hz input; out-puts -5% 2 40 centigrade. Appearance varies from pic-ture; 20 lbs sh wt approx.

3.7 VDC 14 amps 5.0 VDC 13 amps 5.0 VDC 28 amps 6.0 VDC 3.5 amps \$21.00 55.00 15.00

FMC PXC-C-36 36 VDC 2.3 amps 22.00

19"W RACKMOUNT MODULAR SUPPLIES, reparable: #N17005A 5.0 VDC 49 amps \$60.00 LMF-A-5 5.0 VDC 31.5 amps 45.00 N17006A 6.0 VDC 47 amps 60.00

DEC H721 RACKMOUNT SUPPLY, ±5% adjust output +10.5 V 3 amp, -15.5 V 5 A, and -5 V w/5 A current limit (fused 25 A); fan cooled. \$35

SPERRY 4113281 RACKMOUNT SUPPLY, 120/240 VAC input; outputs +6 V 5 amps, -12 V 2.5 A, and +48 V 5.5 amps. \$50.00



LAMBDA SWITCHING POWER SUPPLIES, all outputs \$5% adjust; ratings @ 40 C. Not suitable where RF noise is a con-sideration. Unused or little used.

Size Wt PRICE 32x12x4 2 \$10.95 32x3x82 4 \$19.95 22x5x7 6 \$26.95 42x62x17 25 \$115. # Output
LUS-8-24 24 V 700 ma
LUS-11-15 15 V 7 amp
LYS-X-28 28 V 5 amp
LGS-EE5-OVR 5 V 120 A Reg 4% 4% 1% $4\frac{1}{8} \times 6\frac{1}{2} \times 17$ 25 \$115. $4\frac{1}{2} \times 6\frac{1}{2} \times 17$ 25 \$115. LGS-EE15-OVR 15 V 47

PHILBRICK -300/+300 VDC POWER SUPPLIES, 0.001% designed regulation; #R-300, 300 ma; 42 lbs sh wt. Used, \$50.00 #R-600, 600 ma; 55 lbs sh wt. Used, \$50.00





TRANSFORMER & DIODE ASSEMBLY with Sig-nal 24-4 transformer which has two 12 V 4 amp secondaries. Also two 200 V 40 A

diodes, two 300 V 25 A SCR's, and a P&B 120 V 50-60 Hz DPDT relay w/10 A contacts. W/schematic. 10\frac{1}{2}x3\frac{1}{4}, 8 lbs. #ASI-M912VPS, \\$12.95



POWER SUPPLY, pro-vides 100 to 110 vides 100 to 110
VAC 60 Hz 15 or
50 watt output
from 6 VDC 6/13
amps (15W/50W) or
12 VDC 3/6.5 amps
(15W/50W). With 66" battery cable.
92x112x82, 34 lbs. Checked, \$22.95

MRC-66 DC to DC SUPPLY has two separate DC to DC transistor in-

to DC transistor inverters operated by 24 VDC 5.4 MMP

24 VDC tinput: Output

"R" -70 V bias, +100

VDC 20 ma, and +200

100 ma, Output "T" +200 VDC 150 ma

70 VDC (isolated +,-) 75 ma, and

6 VAC 5 amps. Inverters in separate boxes which can be removed and used independently. Also has

24 VDC control relays, Reg-Ohm regulator for 6 VAC, locking cabinet with cover & key, plug, and schematic. 92x6x16, 21 lbs. \$22.00



24 VDC 5.4 AMP POWER SUPPLY, 1: put 105-125 VAC 1nput 105-125 VAC 50-60 Hz. 10x5x5; 17 1bs sh. Used. #OHM24N5.4-1,\$39.50 \$32

COLLINS 516F-2 POWER SUPPLY for KWM mit-ter; sold less cabi-net and tubes. 28 lb Used-reparable 775. W/cabinet, \$100.00



2/24 VDC 22/11



CPP-2 POWER SUP-PLY, output 12 VDC 22 amps or 24 VDC 11 amps. With mains and load control amps.

and output mode indicator lights. Input: 90-130
VAC 60 Hz. Size: llxle2x102, 90 lb sh wt. Used. 365.00 Now \$45.00

DYNAMOTORS

USED RENEW TYPE DM-25 DM-28 RENEW TYPE 4.95 D-401 6.95 0-402 6.35 4.95 D-401(spec) 8.95 DY-9 9.95 DY-10 12.95 DY-17 no base \$15. DM-32 DM-32 DM-33 DM-34 DM-35 WRITE WRITE WRITE 6.95 DY-21 8.95 2.95 WRITE DA-6A DA-IF 15.00 DA-14 8.95 WRITE DM-41 11.00 DN-42 8.95 DM-43 DM-53 4.95 DM-53 5.95 (12V) BD-83 DM-64 7.95 19.95

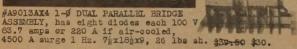
ADVISE US OF YOUR PE-98 REQUIREMENTS OR PE-98 WRITE FOR SPECS. PE-94 8.95(COMP) 4.95(DYN) 9.95

CARTER MA-2503; INPUT 6 VDC 6.3 A. OUTPUT 250 VDC 30 MA. SIZE 32x5x3; WT. 6 LBS. USED \$4.95

4|S|4 F/COLLINS 6|8; INPUT 27.5VDC 22 AMPS.OUTPUT 650 VDC 550 MA. & 250 VDC @ 150 MA. SIZE 9x|4 N \$|5

ELECTROSTATICS MODEL 50 SUPPLY, 18-22 VDC 2 amp output from 103-127 VAC in; 62x5x4, \$20.00

HI-CURRENT BRIDGES



#A9013CS1ED1 3-Ø FULLWAVE CENTER TAP BRIDGE with 6-300V 83.7 amp diodes; 7x14x8, 21 lbs ah wt. Used. \$12.50 \$32.

#5961-860-1165 (Collins #548-1278-00) THREE PHASE FULL WAVE BRIDGE, bridge rating 95 VDC max 290 amps max using six diodes. 62x122x8, 22 lbs sh. New \$40.



TRANSISTOR-REGULATED SUPPLIES 115 VAC in: #CD12N.85, 12 VDC 850

ma; on 4g" x 5" circuit board, \$6.

THUNDER SUPPLY, 3.7 VDC 750 me output; info for 3-10 V 500 me modifica-

INVERTERS



EICOR INVERTER X3516-1 INPUT: 27.5 VDC 165 AMPS. OUTPUT: 115 VOLT 400 CYCLE 2500 V.A I PHASE SIZE:16x112x8; WT: 75 LBS. EXCELLENT COND. \$49.50

PU-7 INVERTER

INPUT: 28 VDC 160 AMPS. OUTPUT: 115 VAC. 400 CYCLE 21.6 AMP. | PHASE SIZE 192×8×102; 100 LBS. PRICE: UNUSED \$49.50

5ASI 3NJ3 INVERTER

INPUT: 26 VDC 100 AMPS. OUTPUT: 115 VAC 400 CYCLE 1500 VA | PHASE SIZE: 14x98x6; WT; 50 LBs. PRICE: UNUSED \$45.00

MG-149H INVERTER MG-149H INVARTER
INPUT: 24 VDC 36 A. 750 VA.
OUTPUT: 115 V. 400 cycle
I PHASE 500 VA & 26 V. 400
cycle I PHASE 250 VA.
SIZE: 12x82x8; WT: 25 LBS.
PRICE: Used, \$39.50



INVERTER 27.5VDC 60A

WINCHARGER MOTOR on 15x92 base.





F-132 INVERTER
INPUT 27.5 vDc @ 100 AMPS.
OUTPUT 115 v. 400 CYCLE
1500 va 3 PHASE
SIZE: 16 x 11 x 7;WT: 55 LBS
PRICE: USED \$75.00

JACK

F-147 INVERTER
INPUT 27.5 VDC @ 180 AMPS.
OUTPUT 115 V. 400 CYCLE
2500 VA | PHASE
SIZE 18X11X7; WT; 45 lbs
PRICE: USED \$75.00



Jack & Heintz Inverter #AN-3532-2 INPUT 27.5 VDC @ 20 AMPS. OUTPUT 115 VOLT 400 CYCLE, 3 PHASE, 250VA VOLTAGE REGULATED. SIZE: 12x72x42; WT: 20 LBS. FED#6125-617-0967

Used, \$18.95

. 1000 VDC 350 MA

BD-77 DYNAMOTOR; INPUT: 14
VDC 39 AMPS. OUTPUT: 1000
VDC 350 MA. SIZE: IIXI0x62
SHPG. WT: 40 LBS. \$19.95

PE-73 DYNAMOTOR; SAME AS BD-77, BUT WITH 28 VDC 19 AMP INPUT, RECOND. \$30.00

DM-42 DM-42 DYNAMOTOR; INPUT: 12 VDC 39 AMPS. OUTPUT: 1030 AND 515 VDC @ 215 MA. 7x7x11; 42 LB. RECOND. \$15.

IBRATOR POWER SUPPLY, USED WITH AN/PIP-IA PUBLIC ADDRESS SYSTEM. INPUT: 5.2 TO 6.2 DC



VOLTS; OUTPUT: 300 VDC 60MA, 50 VAC. SIZE: 45x32x22 3 LBI #HI7VD-11077 NEW \$5.95

PE-104 POWER CONVERTER. 6 OR 12 VDC

INPUT, OUTPU 90 VDC, 12 VDC AND -45 VDC. SIZE:4x4x7; WT: 10 LBS. NEW \$3.95 W/EXTRA VIB.\$4.95

PP-855/PRC-14 VIBRATOR



WITH FILTER NETWORK.
6 VOLTS DC INPUT, 5.35 AMP OUTPUT 135 VDC 9 155 MA.
SIZE: 74x24x24; WT: 3 LES.
NEW \$4.95

PP-1234/U 115/230 VAC POWER SUPPLY for URM-32 for URM-02 freq. meter;

freq. meter; output 180 VDC 20 ma, 6.5 VAC 1.1 amp. Xformer 460 VCT 20 ma, 6.5 V 1.25 A.; Choke dual 20 Hy 20 ma. W/6X4 tube. 12x3 x12 12 lbs sh wt. Used, \$14.95

HIGH VOLTAGE



AGE POWER SUP-

ACE HIGH VOLTAGE POWER SUPPLY; OUTPUT: 0000 VDC 50 UA APPROX. INPUT: 115 V. 60 Hz. Uses Two 183 Recting flange. Size: 6x7x2; Shpg. WT: 8 LBs. UNUSED. #ACE-HV3000, \$5.95 SPECIAL!! 2 FOR \$10.00

12 V DC SUPPLY

PS601301 TRANSTSTOS 3021 REGULATED POWER SUPPLY, output +12 V 2.7 A +12 V 2.7 A and -12 V 1 amp with OVP. Also -6.8 V

300 ma out. Schematic in-cluded for 115 or 230 VAC operation. 92x52x7, 16 lbs sh wt. Used, \$12.00



12 VDC 4 AMP TO 24 VDC 1.5 AMP. PARRALLEL FOR MORE CURPEAR MORE CURRENT. BRATOR

SIZE:62x52x82; WT: 10 LBS. NEW \$4,35

TUBE COUNTY

4-125A

4X150 SOCKET PAIR 1/ T-195 xmitter modltr 42x3x21, #T195/4x150 Removed, \$12.310.

4-400A (4X150/4CX250); used. #SK606/124-111, \$3.00 ea. 2/\$5.

OCTAL MOULDED 2 HOLE MTG.\$ -35 OCTAL MOULDED 2 HOLE MTG.
RING
"CERAMIC (SPECIFY)
LOCTAL MOULDED 2 HOLE
CERAMIC TYPES 4,5,6 & 7
CONTACTS STANDARD SIZES
MOULDED TYPES 4,5,6 & 7
CONTACTS, STANDARD SIZES
MINIATURE MOULDED 7 & 9
"CERAMIC 7 & 9
SHIFLDS FOR WINIATURE TUR .65 .45 .50 SHIELDS FOR MINIATURE TUBE .40 GIANT 4 CONTACT CERAMIC FOR 21 / VT-4C, 872 ETC. GE#ML7461594-GI USED .49 GIANT 4 CONTACT CERAMIC FOR 715,718 ETC. JOHNSON 234 TYPE STK.#2Z7664-98 UNUSED \$1.25 CERAMIC FOR 829 ETC. Used 1.25 CERAMIC for 811/866 used \$1.50

CERAMIC 1/813, #122-237 NEW 35 JOHNSON CERAMIC SOCKITS, unused #214 for 750TL/1500T etc \$2. #244 for 8008 etc. \$2.00 #247 for 829B, 7094 \$2.00 EIMAC SK-113 GETTER CLAMP f/4* dia tube base NEW \$45

#122-101-207 for 826/829/ 832/4D32; VHF septer, \$3.25 #124-0113 SCREEN GRID BYPASS for 4x150/4Cx250; 2000 pf, \$3.

TERMINAL BLOCKS--TELEPHONE TYPE

#TT4X10F4A, 4 rows ten terminals each; total 40. Size: 3½x3x2; unused \$4.25 WE 4x10, used \$2.25 #660069, 3 rows 26 removable terminals; 78 total. 7x22x3 \$4.50

WE 2-rows 25-term; used \$2. 4E9865 40-term, flat mt.\$2.

879-9661 3 rows of 30 terminals one side wire wrap. size 8-7/8x2-3/4x1-3/4 \$3.50

AIRCRAFT STYLE TERMINAL STRIPS AN-3436-2-6 6 term. 4x7/8x11/16 6-32 studs on 19/32 centers .55

AN-3436-2-9 9 term 6x7/8x11/16 6-32 studs on 19/32 centers .75

AN-3436-4-10/10 term. 7-7/8x1x1 10-32 studs on 3/4 centers .8

AN=3436-4=16/10 term. $12\frac{1}{2}x1x1$ 10=32 studs on 3/4 centers \$1.25

5BK-22 BOX Consists of 3 AN-3436 tarminal strips 13 term. each & 2 AN-3436 9 term. ea. The 10/32 studs extend thru. the phenolic board and have solder terminals. Board size 52x82x2; 4lbs \$2.75

TERMINAL STRIPS WITH CLIPPED WIRE BARRIER TERM. STRIPS AVAILABLE, 3/4,1 & 1½" WIDTHS, 2 TO 16 TERM INALS. TWO TERMINAL 20¢,EA. EACH ADDITIONAL TERMINAL 3¢. WE WILL SHIP CLOSEST TO YOUR ORDER.

HEAVY DUTY TERMINAL STRIPS.
APPROX.27 w/12 b.
6 term. 42 c6 1.50 12 term. with
8 " 6 " 2.00 screw down
12 " 82 " 3.00 holder type\$4

Capacitors



53.3 MFD. 102x42x32: 11 1bs sh. #4W3081, NEW, \$25. 6/\$130. Oil capactors, re-

moved from equipment: VDC SIZE MED 400 2 14x1 600 2 12x2 1 600 3 1x2 1 600 4 1x2 1 600 4x4x2 600 5½x3½x1½ .000 4x1½x1 1.5 1000 1000 1000 4gx2gx1t 1.35 10 1000 51x31x11 2.50 1500 1.95 3.00 10 1500 4.00 2000 5x31x21 2000 7x41x31 3000 6x2111 3000 41x31x21 3000 51x31x31 12.00 0.6 1.25 2.00 0.84 4000 54x34x14 2.25 4000 7ax4ax34 4.75 2 7.50 1.50 12.00 3 4000 9½x4½x3½ 2x0.1 4500 5½x3½x1¾ 0.65 12500 14x8x4 0.75 20000 162x162x42 \$22

COMP	UTE	ROI	IADE
MFD	VDC	SIZE	PRICE
24000	3	4x3	. \$.75
-23000	7	5axla	.60
	Bank	of fiv	
61000	10	4x22	1.50
150000	10	5½x3	3.25
28000	15	48x2	2.00.**
73000	15	42x3	3.00
5200	20 3	x1-3/8	1.25**
40000	20 4	2x23	2.75**
52000	20	6 x 3	2.85**
18000	25	45x2	2.00**
16500	30		2.00
25000	30	4支x3 4支x3	2.25
54000	30	6x3	4.00
	35		2.50
18000 25000	35	4x3	2.75
		4x28	
37500	35	6x3	3.75
9400	40	4%x1%	2.00
51000	40	5gx2g	4.15**
51000	40	42x3	4.25**
76000	40	52x3	4.75
1000	50	Strik	1.20**
23200	50	4x3	3,25**
3500	55	4x3	2.00.**
20000	55 .	52x3	3.25**
58000	20	6x3	2.20**
22000	75	5x3	5,25
950	75	4x3	2.00
15600	75	42x22	4.50
16800	75	4 x 2 1	4.75
1400	99 4x		1.00**
	300	5 x 2 5	5.00
	165 4x2		1.00**
	180	42x22	3.00**
		2 NEW	2.25
500	200	5±x3	1.00**
	200		
1700		5gx3	3.80
1000	350-	5½x3	3.75
	00\$	6 x3	7.50
** mar	ked, t	ake 25%	OFF.
BUY 5	JONIPUT,	ER GRAD	ES of
SAME re	iting,	take 20	% off.
DIVORCE -			~
			00 mfd
	3½ x 3		5/\$10
MICA C.			VDC CM
ITORS 1	18 ed	.01	600 55

ITORS used in RF power .02 500 circuits. .022 1200 JAN CM-size .0004 2500 than .006 2500 less than 13x1-3/8 12x1-3/8 .016 2500 \$1.25; 5/\$5. 35 pf 3500 .01 1200

COMPUTER GRADE ASSORTMENT, 10 capacitors in ranges 5-30 VDC 1K-50K mfd; takeouts Approx 10 lbs, #8700 \$4.00

ROTARY SWITCHES

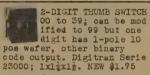
1-POLE 17-POSITION, 21 dia bakelite; 3/8x1 dia shaft. CRL #PABOOL NEW \$1.95; 2/\$3

ROTARY SWITCH, 2-DECK. ONE 4PDT MOMENTARY BOTH SIDES; OTHER 2PDT MOM. B.S. AND 1PST MOM. I-3/8" DIA.; CER-AMIC. #3Z9825-20, \$1.00 MINI-ROTARY, 1-pole 3-pos. shorting. 1* dia; 1/8* dia shaft. No hardware. #LED-M13-S, unused, 75¢

THUMB-WHEEL WAFER
SWITCH, 18 POSITICN, NUMBERED, 2
HOLE MTG. HORIZON
TAL OR VERTICAL,
22x3/8" # 960 New \$1.25
SAME AS ABOVE 10 POSITION
22x3/8" #980 NEW \$.75

2-DECK 5-POS w/OFF-ON switch 2/SPST 8 A 125 V. 22x 12, 2 d a shft. #2D5PSW \$3.

MAILORY NON-SHORTING TYPES: #3254J 3-circuit 4-pos \$1. #3243J 4-okt, 3-pos., \$1.10



Rotary switch one deck 17-position; one tie deck.12* x1. silver pl. SW-249 \$2

1-POLE 12-POS non-shorting; 14 dia X 2 lg shaft. Mallory #32112J NEW \$1.25

DAVEN SWITCH



18-POSITION, CON-TINUOUS TURN, 2" dia. Zinc-silver contacts. zxz" dia Unused, \$3.00

Miniture tap switch 1 pole 7-position rated 1 amp. 1x21. Grayhill 7 pos. \$2.00

CERAMIC TWO DECK, 1-pole 4-position/deck (90 throws); 2x2* dia shaft, 12* dia wafers. #83-2-1P4P, \$1.75

Ceramic 5 pole 3-position, 2 deck rotary 2"x12". used Re-moved S-602/13 \$1.50

Ceramic 1 pole 12-position rotary sw. 1½ dia. w/stop. re-moved S-601/13 \$2.00

3-DECK 1-POLE 11-POSITION/ deck; 1-3/8" dia bakelite wafers, 2" dia shaft. #5930-544-2513, unused, \$2.95

DUAL CONTROL SWITCH, 2" dia outer shaft switches 1-pole 4-position rotery; 1/8" dia inner shaft adjusts 50% chm pot w/on-off. #3540 NEW \$2.

ANTENNA CIRCUIT SWITCH 100 WATH 3/MAKE 3/BRE AK SIZE: 4±x29 IN. #379626 \$2.50

ATTENUATOR NETWORKS #ATT/SG15, balanced "H" 600/600 ohm; 0-70 db, eight steps. Used \$8. #T-4095, "T" 600/ 600 ohm 0-50 db, 1 db/step. \$12.

Parts Kits



33 ASST. 15MMF-.01MFD Good Value \$1.25 a KIT

HARDWARE ASSORTMENT from electronic e-quipment such as washers, screws, ri-vets, nuts, termi-nals; 2 lbs \$2.00



MICA CONDENSERS 25 ASST. 10 MMFD To 6800 MMFD. \$1.00 a KIT

TRIMMER CONDENSERS 25 ASST. to 280MMF WIDE RANGE \$1.00 KIT.



PRECISION RESISTORS 25 asst. on boards. Car bon or wire wound 1%. \$1.50/kit

WIREWOUND 25 ASST.

5 to 20 Watt. Wide

range of values some tapped.25 ASST \$1.00



VOLUME CONTROLS 10 ASST. Popular Values \$1.00

TUBE SOCKETS 20 ASST. Octals Loctals Minatures Wafers btc \$1.00





PILOT LIGHT SOCKETS 25 ASST Bayonet Screw etc. \$1.00

TERMINAL STRIPS, Tie lug strips, ASST types. 25 for \$1.00



TERMINAL LWGS, ring spade, crimp types. Wide

variety of sizes for all uses in plastic box,

ROTARY WAFER SWITCH six different types Multi-decks and contacts

BATHTUB CONDENSERS KIT .1 to 1 mfd up to 600 VDC. Vari-ous types 10/\$1.

MORE CAPACITORS
Polyatrene 100/\$15:
.01 uf 200 V, 4/\$1.
.009 uf 500 V, 4/\$1
Mylar typea:
.022 uf 100 V, 4/\$1 0.33 uf 400 V, 5/\$2.

AC CAPACITORS 4 x1 x1 31.00 47-58 42x2 dia 3.9 4x2x1 6x2g dia 3½x3gxl2 5½x2gxl4 330 17.5 360 4-3/8x21x2 2.00 2x2x1 440 440 48 8.00 41x42x21 34x3x2 5x32x12 5x2* dia 600 4.00 330 12

950

.05 2500 1.3 4000

ELECTROLYTIC (E)/PAPER (P) 6800uf 16 V axial (E) 4/\$1
450 uf 25 VDC (E) 50¢ 5/\$2
1000 uf 25 V axial (E) 50¢
1500 uf 25 V axial (E) 75¢
50-30 uf 150 V (P), 2/\$1.
50-50 uf 150 V (P), 2/\$1.
250uf 150 V (E), 45¢
80-40-20 uf 150 V (F), 45¢
60 uf 250 VDC (E), 45¢
60 uf 250 VDC (P), \$1.10
160-240-240 uf 200 V \$1.65
140 uf 300 V axial (P) 85¢
50 uf 350 V axial (P) 85¢
100 uf 450 V axial (P) 65¢
100 uf 450 V axial, \$1.50
30 to 40 uf 500 V (P), \$3.50
0.01 uf 7500 V (R), \$3.50

5 x4x1 3/ 2 x2x1 3 8 x4 x 2 x 3

160-240-240-5 mf 200 VDC case ground; (E), \$1.00 1 KV DISCS: 7/\$1. 1C/\$6. UF: .0001 .0002 .002 3 KV DISCS: 5/\$1. 1C/\$12. UF: .00009

TANTALUMS, 35 VDC PCB-type 4.7 or 6.8 uf 4/\$1 1C/\$20 40 uf 25 V, 2x3/8, 2/\$1. 47 uf 20 V, \$x\frac{1}{2}, 45\pi 20 uf 50 V, 1\frac{1}{2}x3/8, 2/\frac{1}{3}1.

RESISTORS

3/5 W, 20¢ EA; 10/25 W, 30¢ 0.33 Ohm 11 watt WW Dale 0.5 10 2.43 30 ¢ 24

BLEEDER RESISTORS

25 25 10 FERRULE H , WW 15K 15K 3 CERAM#C

220 W, 1.6 OHM

PRECISION RESISTORS
5K OHMS & WATT, 0.1%, 60¢
7.5K OHMS, 0.333 WATT,
0.25%, WIREWOUND, 40¢ EA.
28K OHMS & WATT, 0.05%,
WIREWOUND, 40¢ EA.
55 MEGOHMS, 10 WATT, 1%,
DALE WIREWOUND, \$1.00 EA.

DALE PRECISION POWER RES.

UES: 450h(1%), 4400h(1%), \$2.50 250 WATT (4½x3x2½) IN VALUES , 600h(1%), \$3.00

25 OHMS 100 W 5% Dale \$1.50 1 OHM 130 W, 5% Dale, \$2.25 6.8 OHMS 220 W, 10%, \$1.75

260 ohms 5 watt 1%, 2/\$1.
4K ohms 3 watt, 1% 2/\$1.00
5K ohms 100 W, 6%x12 \$1.25
75 ohms 50 W, 5%, 4x5/8 \$1. SLIDER VARIABLE WW RESISTOR 15 ohm 35 watt, 10%, \$1.00 10 ohm 75 watt Ohmite \$1.50

MICH VOLTAGE TRANSFORMERS

PRI HZ SECONDARY SIZE WT STOCK # PRICE 117V 60Hz 375V 40MA 2/6.3 .6A 22x4x22:4LB#24003 \$3.95 105/115/125 780 VCT 65 ma 52x52x42 15 #A3499 \$5.95 200/225/250 60 Hz 6.3 VCT 4 A. 5 V 2 A 115 60 350 CT/26 MA 22x32x3 4 647-6762 3.95

115 60 1470 VCT 126 ma 5x62x42 16 #556-9885 \$14.95 (2640 MW), 6.3 V 2.5 A, 6.3 V 0.4 A.

115/230 60 750 VCT 110 ma 42x52x42 9 TF1A03YY/
6.3 V 3.6 A. 5 V 2 A

110v100ma,50vct 41x31x31 10 KaL#2334 6.95

.5a,25vcT,.15a. 14vcT 2.5a.

115 60 50-115

14VCT 2.3A.
600 VCT 60 ma 2\(\frac{1}{2}\)x4x2\(\frac{1}{2}\) 8 lbs #1831 5.95
6.3 V 1.5 amps
550 VCT 12 ma 2\(\frac{1}{2}\)x4x2\(\frac{1}{2}\) 5 lbs #37711 **5.95**2 60 VCT 300 ma 6.3 V 600 ma
700 VCT 50 ma 3\(\frac{1}{2}\)x5x3\(\frac{1}{2}\) 11 lbs #12314 5.95
60 Hz 5 V 2 A, 6.3 VCT 3.5 A
820 VCT 120 ma 4\(\frac{1}{2}\)x4\(\frac{1}{2}\)x4 10 #7629831 6.95 400 Hz 108/115/ 115 V 2 amps

1000 VCT 220 ma 5x42x4 20 #T1/610 \$10.95 2.5 VCT 5 A, 5 VCT 3 A (1750 V insul)

60 6.4/1A 3/6.4.3A 2\(\frac{1}{2}\)x3x2 \(\frac{1}{1}\) 645-0612

| 115/60Hz 360VTAPS/7/332/346V.125MA 228V.015 6.6VCT 4.2A 4x5x31; 12LBS.#7489394 \$3.95 115/230 60 175 V 85 ma 22x42x2 5 #2Z9612-382 4.95 or 50.8 V 95 Hz vibrator input
115/230 60 1475 VCT 500 ma 52x42x7 32 #TED-5694 \$28.
1070 WV, 6.4 V 14 Å, 5 V 5 Å, 19 V 1 Å 51x41x7 32 #TED-5694 \$22.

115/60HZ 700VCT .050A 5V3A 42x32x3; 9 LBS#TF1A03Y\$3.95

| 115 V 60 Hz 650 VCT 20 MA; 3\(^2x2\)\(^2x4\)\(^2\), 10 #8734, \$2.95 6.3 VCT 2.5 A.
| 115 60 6760 V 60 ma ll\(^2x8x6\) 35 #1000A-358 \$25. (25 KV test, insulators 3\(^2\)* high)

115v 60hz 110v @ 30ma $3\frac{1}{2}x2\frac{1}{2}x2\frac{1}{2}$ 31 1bs #5569 \$3.95 6.3 @ 3.2a.

115 60 2000 VCT 500 ma 7x52x5 32 #HW-201P 32.50 8 229608-110 5.95 115/230 660cT@60MA RD3 x42 8 229 50/60 cy 6.3 0 5 A (FOR TG-34 KEYER)

700 VCT 70 ma 4x3 x4 6.3 VCT 3 A, 5 V 3 amp. 4x34x4 6 #T52960 60 \$5.95 208/230 940 VCT 600 ma 7x82x6 39 #234-0035 \$14.95

LOW VOLTAGE TRANSFORMERS

SIZE WT STOCK # PRICE PRI . HZ SECONDARY 115v 60Hz 6V/IA 45vcT/.5A 3x21x21 2LB #1461312 \$2.95 115/230 60 12.6 VCT 1...

115/230 60 12.6 VCT 1...

115v 60hz 6.3v@15a/two 5zx4x3½ 11 1bs 7...

6.3v@.6/two-5@6a./5@2/5@3

115 60 27 V 4.3 amp, 5x5x5 15# D161915

2.6 V 3 A, 4.1/5/6.3 VCT 3 amp

117v 60hz 55v 4 60ma 52 x22 22 41b 5950-8419

115 60 2/5 V 3 amp 4zx4z2 5 #2-5V3A

6x5x4½ 20 *647-6219 115/230 60 12.6 VCT 1.5 A 21x22x3 3 #519-8787 \$3.95 5\$x4x3\frac{1}{2} 11 1bs #4094 \$20.00 9.95

\$2.95 \$4.50

\$3.95 5vct @ 3a

6.5 VCT 11 A, 42x6x32 16 #FT2550 \$8.6.5 VCT 6.2 A, 5.2 VCT 4.4 A, 6.5 V 7.8 A

115 60 24 VCT 50 VA 2 x 3 x 2 3 #BE11269001 \$5.50 115 50-400 34/2.7 A 3.0/250 MA 4\(\frac{1}{2}\)x4\(\frac{1}\)x4\(\frac{1}{2}\)x4\(\frac{1}{2}\)x4\(\frac{1}{2}\)x4\(\frac{ \$4.50

51 @ 1.5 A 115 RD.4x23 6 869-2849 \$4.95

| 120v 6 3/6.3vct .6a 2½x3½x2½ | LB TF|AO|YY \$2.95 | 115 60 2.5 V 10 A 10 KV insl 4½x3½x5 8 #2Z9611.144 \$3 31 v@3.27a, 15.5v 3½x4½x4½ 10 5950-9195 \$3.95 .51a, 23vct@.21a. 24v @ .85 a.; 4½x3½x3¾, 12, #2253 \$2.95 117 60

215 V 60 HZ



UTC #R-44 220/240 V to 110/

60 Hz 250W on bex w/4-breakers, re-lay, flange mount. 0/a 62x10x42, \$9.



\$6.95

115 VAC 60 Hz PRIMARY Sec: 512 VCT 90 MA

90 Mm 3x32x24 4 lbs. #SMB-202958 Used, \$4.50 #SMB-202912, 448 V CT 20 ma; 2x32x24 3 lbs. Used \$2.50

Pri: 115 VAC 60 Hz Sec: 375 VCT 90 ma 2.5 V 10 amps 5 V 2 amps 5 V 2 amps 6.3 VCT 10 A 2.5 V 10 amps 5x4\frac{1}{2}\frac{2}{3}, 10 1bs sh #TF1RXO3YY/141 \frac{2}{3}\frac{2}{3}.

Pri:115v50/60hz Sec: 1860vct
130 ma. 1500 wv
5½ x4½ x4½; 18 1b
SMB202-909 \$15

Pri:115v50/60hz Sec: 2340 vet @

Pri: 115 V 60 Hz Sec: 1120 VCT 400 ma, 950 VCT 150 ma. $6\frac{1}{8}x5\frac{1}{8}x8$, 38 lbs. #TRC-29/ SMB-20291 \$16.95



#BR12696: 18 V 1.5 amp, 19 V 2.5 A, 10 V 4 A; 3x4x32, lbs sh. \$4.95 10 for \$45.00

#PT-09: 48 VCT 2.5

#PT-100: 40 VOI 2.5 emps; 5½.73{x3, 5 1bs sh. \$5.95 #PT-1602: 78 VOI 3 A; 3{x4½x3½, 10 1b \$6.95 ea; 10/\$64. #TRA-1577: 15 VCT 3 amp, 5 V 1 A. 2½x3 x2½, 4 lbs. \$3.95 #EMC-56: 50 VCT 3A

 $3\frac{1}{4}x3\frac{5}{4}x3\frac{5}{4}$, 8 lbs. \$5.95 ea; 10/\$54.

Pri: 220 VAC 60HZ Sec: 10 VCT 75A. Requires 6 mfd Requires 6 mfd capacitor 660 AC 62x42x52; 24 lbs. #NE6114781 \$18.95



FOR RA-62 RECTIF.
USED TO POWER
SCR-522 REC-TRANS
PRI: 110/220 VOLT
40-60 CYCLE
SEC: DC VOLTAGES
300 © 230 MA
BIAS!50 © 8"
13.4 © 3.9 A.
5x52x8: 30 LBS.
#3340-296-862-192
PRICE: \$7.95 FOR RA-62 RECTIF.

FAIR XK-100 XFORNER

Pri: 115 VAC 60 Hz 500 VCT 80 ma 24 VCT 2 amps 6.3 V 3 amps ARC-type 12, BC-639, R-174, & other receiv-

MODULATION

ART-13 MODULATION TRANSFORMER 50 WATT TRANSFORMER 50 WA 300-4000 RESPONSE 20B, PRI. TO SEC. 1; 1/.695, PRI. TO SEC. 2, 1/.254, Z PRI. 15000 Z SEC. 7300, TEST 4000 v. 41x32x28; 4 LBS. COLLINS#677N252 RE-MOVED \$3.95



PRI: 115 v. 50/60 SEC:3/17 v. 5 AMP 28 v. 10 " WITH CAPACITOR REQ. VENTILATION 42×52×72; 20 LBS. GE- 9T91A4074 \$11.95

FRI: 115 v. 50/60 SEC: 100 vct 1.5a 20 " 3.0a 2/20 v. 3.0a 35 v. 5.0a WITH CAPACITOR GE-9791A4069

REQ. VENTILATION 54x6x74; 23 LBs. \$7.95



Pri: 115/230 VAC 50-60 Hz Sec: (12 V 14 A. by wiring 12 V secondaries in secondaries in parallel) or 12 V 9 A, 12 V 3.2 A, 12 V 2 amps; also 44 V-2.5 amps. 54x42x42; 22 lbs #P-601719, \$7.95



MODULATION TRANSFORMER 100 Watt RESPONSE 200 to 5000 PRI: 7000 SEC: 7000 F/BC-191/375 TRANS. Size 3x4x5 WT. 51 lbs. tock # 2c6191/T1



HOO WATT
MODULATION
TRANSFORMER
PRI: 7500 OHM CT
30,000 "
SEC:3000 OHM
35W 200 MADC
600 CT. I W
RMS TEST

MS TEST 1,2,3 500 v. 0THERS 2500 v. 200-3500 CPS. 42x42x42; 11LBS #5950-646-3092 PRICE: \$4.95

Made for ARC-5, ers. NEW \$12.95 TRANSFORMERS LISTED BELOW HAVE 115 VOLT 60 HZ PRIMARIES UNLESS OTHERWISE STATED

Sec: 18 V 5.4 A, 26 V 1 A, 6 V 900 ma, 25 V 500 ma, 35-10-0-10-35 V 5 A. 4½x4½x4, 16 1b #401-21 unused \$8.95 SEC:40v 2.5a/6.3v 1.5a 3½x3½x5½; 10 LBS. #43278 \$4.95

Sec: 250 V tapped 50 V 120 ma, 4 KV test. 4x6\(\frac{1}{2}\)x3\(\frac{1}{2}\), 9 lbs sh. #BP-18587 used \(\frac{1}{2}\)6.95

Sec: 30 vct 560 ma 40 vct 450 ma 23x21x2; 2 lbs. #401-6 \$3.00

Sec: 450 vet 250 Ma. 40 vet | a. 2/6v | a. size: 35 x35 x45; 9 LBs. URC#702-704-00 \$6.95

SEC:50v@100mA/3v@100 mA/40v@1.5A/40v@200MA SIZE:21x2Ex2E; 22 LB. URC#372993-1 \$3.95

VOT 78



SEC: 22 AMPS #NCR8318001, \$40.00

Pri: 115 VAC 60 Hz Sec: 32 VAC 4 amps Suitable for 24 VDC regulated supply. 32x32x3, 5 1b #4892-83 NEW \$4.95

CHARGER TRANSFORMER. 230 VAC 60 Hz primary with 8-taps to product 12 to 40 VCT 50 A sec. ondary; usable on 115 VAC input with reduce output. 52x62x62, 33 lbs. #XJ-885/240 \$32.

Pri: 115 VAC 60 Hz Seo: 24 VCT 50 amps 5\frac{1}{2}x5\fra



VCT

Pri: 115/120/125 VAC 60 Hz 1 Ø Sec: 24 VCT 35 AMPS 5\(\frac{1}{2}\)x5\(\frac{1}{2}\), 19 lbs sh wt. Wabash #4429 NEW \$30.

Pri: 115/230 VAC 60 Hz Sec: 30 V 4 amps, 11 XK-190 38. V 4 4, 3\x\2x3\frac{1}{2}, 8 10s.

PRI: 115 VOLT 60 HZ. SEC: 130 VCT @ 200 M SIZE:3%x2*x2*; 2 LB. URC#8316423 \$2.50

Sec: 26.8 vct 1 A. 22x 2x22, 2 lb. #401-17 \$3

Pri: 210-250 v. 50/60 Sec:13.7 v. @ 1 amp. 6.3vct @ 4.75 amp 4½x3½x3½; 101b 2Z9600-84

\$10.00 Pri: 220/220 VAC 60Hz Sec: 260 VCT 200 VA 4£x4x6, 17 lbs sh wt. #8034, unused, \$9.95 Sec: 175 vct 100 ma. 75vct 200 ma. 80 vct 100 ma. & 5 v. 200 ma. size:3x2*x2*; 2 LBs. URC#720660-1 \$2.95

Pri: 105/115/125V 60Hz Sec: 285/300/315 V © 300 ma & © 150 ma. 4x 6x4% 15 lbs. RA342 \$6.

SEC: 40 VCT | A. SIZE: 31x11x2; 11 LBS. URC#56000 \$2.95 2462A/6.3@100MA

SEC: 2462a/6.3@100ma 24@100ma. size:3\x3x3 4 LB. URC-LT-646\x4.95 SEC: 30 VCT 200 MA. 45 VCT 100 MA/2.5V30M, SIZE:2½X|½X2; I LB. URC#374501-1 \$2.95

SIGNAL TRANSFORMER Pri: 2/115 VAC 60 Hz Sec: 2/6.4 VCT 12 amp 42x32x32, 7 lbs sh. #DL-12.8-12 NEW \$14.95

Pri: 2/115 VAC 60 Hz Sec: 2/28 VCT 8 amps. Sec: 2/28 vor 6 smps.
Wire for 56 vor 8 Å,
28 vor 16 Å, or 14 v
32 A. 42x52x42, 17 lbs.
Signal #DL56-8, \$25.

Sec: 125 V tapped 90 volts 3 amp. 4x4\(\frac{1}{2}x3\)\(\frac{1}{2}\), 10 1bs. #225-3992, \$12

22 VCT 3 9 ()

PRI: 100,115 v. 60 Hz. SEC; 22 VCT 3 3 AMP. 80 VCT 0 12 " \$1ze:3\(\frac{2}{3}\)x3x4; \(\text{WT:}^2\)8 LBE \(\frac{4}{3}\)\$3592890015 \(\frac{5}{3}\)4.95

ISOLATION, 230 V 50/ 60 Hz to 115 V 435 ma. 3½x4x3 7 lb. #3436 \$5.

VIBRATOR TRANSFORMER Pri: 12.6 V 115 Hz Sec: 160 V 160 ma 2-1/8x23x31, 4 1bs #5950-243-5679, \$4.95

Pri: 115 VAC 60 Hz Sec: 460 VCT 50 ma 6.3 VCT 2 amps 3x2*x2*, 4 1b. #7514 \$4

Pri: 115 VAC 60 Hz Sec: 32 V 2.5 emps 3273x22, 3 lbs sh. Stancor #S811 used \$4.

PRI: 115 VOLT 60 Hz.
SEC: 35 VCT @ 1 AMP.
6 V. @ 300 MA.
SIZE:21x22x3; WT: 3 LB.
URC#1341155-2 \$2.50

Pri: 115 VAC 60 Hz Sec: 45 VGT 500 ma 6 V 500 ma Size: 3½xx2½x2½; 2 lbs URC#203A6725-10 \$2.50

Pri: 115 VAC 60 Hz Sec: 500 VCT 100 ma 6.3 V 1 amp Size: 22x2x3, 4 1bs. #URC8316213 \$3.95

SEC:500vcT 35ma/24v.9a 6.3v.9a/6.3v.3a/4LBs. 3x3x3\frac{1}{2};#RM|3-3|7 \$2.95

RANSFORMERS

Pri: 100/115 VAC Sec: 40 VCT 9 amp, 52x62x6, 32 lbs. #7213-4112, \$15.

As above, but sec 39.8 VCT 8.5 A, 22.7 V 12 amps. #5602-1500, \$12.



PRI: 115 V 60 Hz SEC: 15 V 3 AMPS 13 V 2 A; 6.3 V 7 A. With CAPACITOR, 48x32x32; 13 LBs. #PV-175-9, \$5.95

AUDIO

Pri: 60K/12.5K Sec: 8/600 ohms MW; lixlax22, 2 lb. #T14/R174 \$4

Pri: 13000 ohm CT Sec: 25/1000.1.CT 200-35000 Hz; 3x 3½x2½, 3 lbs sh. 3½x2½, 3 lbs sh. #T2/SG-15, \$4.50

Pri: 600 ohma Sec: 5000 ohms CT 1000-4000 Hz; 1½x1 x2½, 3 lbs sh. #2Z9631.248, \$3.50

Pri: 250/4000 ohm Sec: 150, 6000 CT 400-3000 Hz; 1½x 1½x2½, 2 lbs sh. #C-280/RM-39 \$3.

Pri: 16000 ohm CT Sec: 600 ohms CT 1000-4000 Hz; 21x1 dia. #CV2/T4 \$3.50

Pri: 16670/4170/ Pf1: 18676, 11 1040 ohms to Sec: 8 ohms. 60-8000 Hz 4.5 W #229637.94, \$4.

Pri: 7000 ohms Sec: 4000 ohms tap-ped 250 ohms; 200-8000 Hz. 12x2x12, 1 lb. #247-9266 \$2.

DRIVER/OUTPUT AUD. IO, Driver: 5650 ohms CT to second. aries 2.6:1 and 40:1 CT. OUTPUT: 5250 ohms CT to 500 ohms & 4 ohms, 8 W. 22x41x21, 3 lbs. #T504/CV2, \$4.

AUDIO MATCHINS

OUTPUT TRANSFORMER Pri: 5000 ohms
.015 adc Sec; 200
& 4 ohm,.1-10 kc
-30DBM. 2 2x2 2x3
121bs \$3.95
5950-645-1855

INPUT TRANSFORMER Pri: 150 ohms CT Seg: 150,000 emhs 100-8000 Hz 1.5mm 2±x1-7/8 dia, 1 1b. #5535. \$3.50



TUBE CHECKER
TRANSFORMER

**IZE: 41×41×4, 51±B
STK. # 2296[3.667
PRICE: \$4.95



PRI: 26/115/230 V 60 Hz. SEC: 13 v. 8 AMPS TWO 230V WINDINGS TO SUPPLY 370 VDC 600 MA. 52x52x5; 22 LBs. 229613.514 \$7.95

Pri: 115/230v 60hz Sec: 12/24 V 4/2 A 2½x5x2, 2 lbs sh. Stancer P6377 \$5.



ALL PRIMARIES 115 VOLT 60 CYCLE

Sec: 6v. @ 500 ma. Ilania 3 oz. URC#1378648 \$1.25

Sec: 6.3 v. 1 amp 12x12x12; 4 oz. BE16073-001 \$1.50 Sec: 6.3 VCT 2 amp 21x2x12, 1 lb. Stancor P-2945 \$3.

Sec: 2/30 v. 250 m 2x|2x|2: 4 oz, JRC#60605 \$1.50

Sec: 6.3 VCT 1.5 A 2x2\frac{1}{2}x2, 1 1b sh. #F-16X, NEW \$1.95

Sec: 12 V 2 amps 2x2\frac{1}{2}x1\frac{2}{2} 1 1b sh. #37-7622 NEW \\$2.25

AUDIO BANDPASS 2320 Hz peak, 1285-4200 Hz Band Width; Pri 600/250 ohms Sec: 120000 ohms 2\frac{1}{2}x2\frac{1}{2}x4, 4 lbs sh. #3Z1892-19, \$4.95

MIC TRANSFORMER Pri: 50 ohms 30 ma Sec: 500 ohms, 400 to 1900 Hz. 12x11 x12, 1 lbs sh. #T204/PP-115 \$2.00

Pri: 500 chms CT Sec: 500 chms CT, 600-12000 Hz; zlx2 x2½, 2 lbs ah wt. #T203/PF-115 \$2.00

INPUT TRANSFORMER Pri: 500 ohms Sec: 20000 ohms CT 150-3000 Hz 0.4 W 1-5/8x2-3/8x1-5/8, l lb. #55C162, \$3.

OW WOLTAGE TRANSFORMERS

ALL PRIMARIES 105/110/115 120/125 VOLTS 60 CYCLE.

SEC: 6.6 v. 18 AMP 3\frac{1}{2}x5\frac{1}{2}x4; 12 LBs. GE#9T35Y159 \\$4.95

V 5.5A, 2.5 KV test

2.5 VCT 10 A, 10 KV insula. 5x32x3 7 lbs 2Z9621-201 34.

Sec: 8 V 50 VA; 2 x3x21, 3 lbs. #9861, NEW, \$3.95

Sec: 6.3 VCT 3.A 2.5 3\frac{1}{2}x2x2\frac{1}{2}, 3 lbs. \#P-6446 \frac{1}{2}4. Sec: 6.5.3.1a/6.302.5a/6.3 @.45a/6.3c.30a/2-5.0@2 amp.
TF1A01JA \$3.95

Pri: 100-130 VAC 60 Hz Sec: 6.3 V 25 A; llx51x54, 28 lbs. SOLA #302237, \$12. Sec: 6.3 VOT 5 amps 300 WV; 21x3-3/8x2-3/8, 5 lbs sh. #5950-539-6765 NEW \$4.95

Sec: 12.5 V 2 amp, 150 V 2 A; 42x32x42, 13 lbs sh. #773605, unused, \$6.96 © 13.7a/5.2v © 6.3a/5.2v 2.la. 42x32x6; 15 lbs. TRC-SMB-202910 \$6.95

Sec: 6.3 VCT 3 A; 3x3x2, 3 lbs ah. #F-18X NEW \$2.95 Pri: 210/220/230/240v 60 hz Sec: 5 VCT 10 amp. Stand of insul:12". Wilcox 96C Trans 5x42x5; 10 1b. 2Z9600.42 Kenyo 10694 \$10

Pri: 115 VAC 60 Hz Sec: 850 VCT 225 mg CT grnd 500 VCT 125 mg, 2/5 V 3 A, 6.3 V 2.5 A, 6.3 V 1.25 A, 6.3 V 11 A; 62x62x52, 25 1ba. #188-7474, \$9,95

PRI: 115 v. 60 Hz. SEC: 900 VCT 130 MA. 5x5x32; 13LB. 2Z9612-38 \$8

MODULATION

Pri: 8000 Act 250 ma; sec 2800 f. ot 300 ma. 200 Hz-20 Khz 120 watts. 8x4±x4± 30 lbs. #T201/MD-141, #12. Pri: 21000 hot; sec 8000 hot 250 ma, 150-3000 Hz 250 W 7 KV test. 72x4 x4, 28 lbs sh. #229633/610, \$15. PLATE TO PLATE, pri 158000 4500n 900 ma; sec 7500 n 535 ma, 400-3000 Hz. 11x8; x10 10 1ba. 568-4831 \$36

Pri: 115 VAC 60 Hz Sec: 6.5 VCT 24 A, 6.5 VCT 6 A, 6.5 VCT 6.5 A, 6.5 VCT 1 A; 6x5x42, 22 lbs. #5950-647-6219, \$14.95

ISOLATION, pri 115/230 V 60 Hz; sec 115 VAC 1 amp 2½12-5/812, 3 lbs. #A762-101, \$6.95 ea; 2/\$12.00

ISOLATION TRANS-FORMER, 110/115/ 120/210/220

120/210/220 primary; Sec: 135 V 1 A 6.3 V 5 emps Switch taps secondary 150/ 125/100/75/50 V no load from 115 V input. 31x25x41, 7 lbs. #P-126J875. 37.95

DC POWER SUPPLY PRI: 115v 60 cy SEC: -8000 v. @.25-1 MA. -120v @ 15 MA - 24v @ 1.2 A -16.v @ .45 A

WT: 15 LBS.

Pri: 105/110/115/ 120/125 VAC 60 H Sec: 1120 VCT 75 MA, 365 V 150 MA tapped @ 535 V 32x5x3, 8 lbs ah. #TF1A02JA-R \$5.95

Sec: 2600 V tapped 1600 V 120 ma; 5-7/8x7-3/8x42, 25 lbs sh. #RP18584, \$14.95

PRI: 115 VAC 60 Hz SEC: 900 VCT 250 MA 42x42x32; 15 LBs. #SS-S-P243, \$7.95

PRI: 115/230 v. 60 Hz.
SEC: 520 VCT @ 90 MA.
6.3V/12 A. 6.3VCT 4A.
SIZE: 42×52×32; WT: 7 LBS.
#TBIRX03LB/FGC-29 \$5.95 CHOKE FOR ABOVE 10/25 HY. 125/15 MA. 4½x3½x4½; 4 LBS #TF1RX04LB/FGC-29 \$5.95

Pri: 115v 60 hz Sec: 350 vct 25 ma 5.0 3 amp 3 x x x 2 2; 3 2 1bs 2 2 9 6 1 3 . 77 \$ 3 . 9 5

IGNITION TRANSFORMER Pri: 115 VAC 60 Hz Sec: 7000 V 3.75 ma 4x5x44, 64" mtg; 10 lb #9T63Y3068G4 used \$8.

Pri: 115/230 V 60 Hz Fri: 110/230 V 60 Hz Sec #920 VCT 100 ma 4/6.5 V 8 amps, 5 V 6 A, 5 V 2 amps 5x5x6, 20 lbs sh. Paeco #910-96R \$12.

STANCOR P8151: 115 V 60 Hz sec 2300 V 5 ma, 2/2.5 V 2 A. 32x42x32, 8 1ba \$7.95

I SOLATION



DUAL PRIMARY, each 100/ 110/120 VAC 60 Hz; can be wired for 200/220/240 V input. Secondary 120 V 1.1 amp tapped 100 V 1 A; 8 V 2 A -0-8 V 1 A; and 16 V 1.5 A -0-16 V 1 A. Mounted on board w/AC soc ket, fused secondaries, diagram. Xformer 52x42x4, 20 lbs sh. #97313, NEW: \$12.95 each; 2/\$22.00



working)
from
115/230 VAC 60 Hz primary 62x42x42, 32 lbs. #TF1UXO2YY used \$35

(1750 V

2000

VCT 500 MA working 700 ma intermittent); 115 VAC 60 Hz primary #HW201P used, \$30 or 5670 VCT 321

4800 MOT 475 ma WV: 115/230 VAC 60 Hz primery. 921 102x82, 110 lbs. #2Z9621/610. \$65.



Sec: 6.3v@2.38a ac $5\frac{1}{4}x3\frac{1}{2}x2\frac{1}{4}$; 81b 581-5333 \$5.95

QUIPMENT.

SEC: 24 VDC 5 AMPS SIZE: 48x32x5 15LB #22661-1 \$9.95

SEC: 25-27VDC 3.5 A AMPS; 5x3x42 | | B #22662 \$6.95

PRI: 115 V 60 C SEC: 6.3 V 3.6 A 15 V.004 A 15 V.004 A SIZE: 3X33×X3;4 LBS STK#ORD7629806 PRICE: \$1.50

Sec: 115 V 75 ma, 2.5 V 5A, 6.3 V 6 A, 6.3 V 3 A, 6.3 V 1.8 A; 4 KV insulation. 42x7x6, 12 lbs. EP18585 \$8.

STEP-UP/STEP-DOWN XFORMER Pri: 115 VAC 60 Hz Sec: 208/220 VAC 150 W; 41x 32x51 8 lbs. #SU-SD150 \$8.

BOSO VGT BOO MA

sec; pri 115 VAC 60 Hz. P/o BC-610E; 12x11x10 115 lbs sh. #2Z9612-1, \$67.50

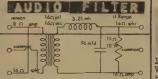
PRI: 2/115 VAC 50-60 Hz. SEC: 5 VCT 2 A; 5 VCT 4 A; 6 VCT 3.5 A; 115 V RMS 600 MA. SIZE: 4\frac{1}{2}x3\frac{3}{4}; WT: 15 LBS. #89-G-2730, USED, \$4.95

TRANSFORMERS

COMMERCIAL GRADE TRANSFORMERS suitable for constructing DC regulated power supplies or ether. All 115 VAC 60 Hz primaries; end bell style with wire leads. NEW:

#701-145, 36 VCT 4 amps, 5 V 1 amp;
3½x3½x3, 5 lbs sh wt. #6.95
#TS-465, 44 VCT 3.5 amp, 30 VCT 1.2 A,
9 V 1 A; 4x3½x3½, 7 lbs. \$5.75
#701-221, 46 VCT 3.5 amps, 7.5 V 2 A;
4x3½x3½, 6 lbs sh. \$5.95
#TA-600, 48 VCT 3.75 amps, 48 VCT 1 A;
4½x3½x3½, 8 lbs sh. \$5.85
#701-129, 50 VCT 2 amps, 6 V 2 A;
3½x3½x3, 5 lbs sh. \$4.95
#701-206, 115/250 VAC primary; secondary
two 55 VCT 3 A; 4½x4½x3½, 10 lb
#701-203, 55 VCT 4.5 amps, 7 V 2 A;

#701-203, 55 VCT 4.5 amps, 7 V 2 A; 4x4x3\frac{1}{2}, 10 lbs sh. \$7.95 #701-205, 2/55 VOT 4 A; 4\frac{1}{2}x4\frac{1}{2}x6 lb lb. \$9.95 #701-206, 115/230 VAC primary, secondary two 55 VCT 3 A; 42x42x32, 10 lb. \$9.50



ELECTRO-VOICE FILTER EVXX3 is an audio frequency filter which connects two aud io amps to two speaker systems. Bass frequencies below 300 Hz are passed to one side of the system and higher frequencies are passed without change to both systems. Eliminates need for two full range aystems. 5\(\frac{1}{2}\)x4\(\frac{1}{2}\)x5\(\frac{1}{2}\), 8 lbs. Unused, original-boxed \$4. W/water damaged case \$2.50

Pri: 117 v. 60hz Sec:1250V. 2madc 4.6kvDC TEST 2.5 V. 2.1 A 2.5 V.1.75 A 42x32x3; 10 lbs

42x32x3; 10 1b #3340*11866 #7

2054, 115 V 200 ma, 6.3 V 6.25 A; 22x3;x3 5 1bs sh., \$4.95 #435-2054, 435 V 370 ma; 22x3;x3; 8 1bs sh., \$7.95 #1000-2054, 869/ 930/1000 V 300 ma; 31x4x4 ma; 32x42x42, 1 lbs sh., \$11.95

Pri: 115 V 60 Hz Sec: 900 VCT 160 ma; 42x5x32, 8 lbs. #74618 \$7.95

Pri 115 VAC 47-63 Hz

all;

2054

Pri: 115 V 60 Hz Seo: 900 VCT 84 ma; 5x32x42, 12 lbs. #746-7167 \$4



PRI:115v 50-133cy Sec:20 volt Load or 12.5v @ 2 AMPS PLUG-IN TRANSFORM PRI:||5v 60Hz SEC:24v 20va 2\(\frac{2}{x}2x2; \) 2LB. BE#8002 \(\frac{2}{x}1.50\) OR 12.5V @ 2 AMPS MOUNTED ON 4" RD. ELECT. BOX COVER 3x3x21: 2 LBs. #FR-24960 \$1.25



Page 13

DHOKES

500 ma 43 ohm 1000 WV 52x5x6 24 lbs. SMB202916 \$9. 10 HY * 225 ma 78 ohm 500v 42x3x5; 12 lb #SC26009 \$6 HY 650 ma 25 ohm 1.07 kv 6g x5x4 20 lb GE7485547 \$9 10 HY 150 ma 130 ohm 1680w 2½x2½x5; 5 lb SMB-202915\$4

2 HY 100 ma 100 ohms 2 KV test; 2x12x12 #T56379 \$2.00 6 HY 250 ma 105 ohms 2 KV-T 4\frac{1}{2}x3\frac{1}{2}x3, 8 lbs. L123/610 \\$6 7 HY 200 ma 140 ohms; 3x32 lbs. Kenyon T152, 4 HY 550 MA 40 ohms \$4.95 32x44x4; 7 lb Paeco 911-39 4 HY 250 MA 60 ohms 3000Vl 3 tx2 2x3 2;7 lb C-1412 \$3.95



4 HY 400 ma 70 ohms 450 Vrms; 3 1 x 3 2 x 3, 6 lbs. #SMD-422-745 \$4.

4 HY 300 ma 70 ohms 1000 V-rms; 32x32x3 #SMD422768 \$4. _____

1 HY 700 ma 11 ohms 1K WV; $5\frac{1}{2}x3x3\frac{1}{4}$, 9 lbs. L101/141 \$3 HY 700 ma 23 ohms 1K WV; 5½x3x3¼, 9 lbs. L201/141 \$4

10-22 HY 40 ma max 1600 V-rms; 2xx12x12 3C570-7 \$3.00 125 mHY 1 amp 1.8 ohms 500 Vrms; 3x22 dia 3C315-41 \$4

10 ну. 100ма. 263 онм. 3½х 3х2½; 3цв. #228-1859 \$3.25 12 HY 80 MA 375 ohm

3x2x2;2 lbs. Sk1N2OC53 150 MA AVAILABLE VARIOUS HY TELL US YOUR NEED.

3 HY 350 MA 30 2K PV; 3½x 4½x2½, 6 lb. L-225/PPll5 \$3 3.5 HY 200 ma 90 V 1 KVRMS 5½x4½x3, 4 lbs. #7629828 \$3 TUNED REACTOR, 210 mHY 1 A choke in circuit with 8 mf and 4 mf capacitors; switch selects 50 or 60 Hz opera-Tion. 1.5 ohms max DC res. 42x6x42 10 lbs. USG3416 \$8. PRI: 60 V 60 Hz. SEC: 2130 V 16 ma, 112 V 4 ma. 42x6 x42, 10 lbs. #HAI31P \$8.95



AMP P/N 845321-3 PRI:115v 60Hz. SEC; 10,000vac100Ma 5x5x4; 10LBs. \$20

SCOPE XFORMERS

ACE HV POWER SUFPLY as on page 10; 3000 VDC 50 ua output from 115 VAC 60 Hz input. Includes 2/185 tubes 6x7x2, 8 lbs sh wt. Unused. #ACE-HV3000, \$5.95 2/\$10. PRI: 112/117/122v. 60 Hz.
SEC: 228v 3 15 MA.
360v & 125 MA. TAPPED
47v/332/346
6.6 v. 4.2 AMP.
5x3\frac{1}{2}x3\frac{1}{2}; 8LB.2Z9613-869 \$5

HV OSCILLATOR TRANSFORMER f/HP-160 & USM-105A scopes; used with 50 Khz 6AQ5 os-oillator. Two HV windings approx 5000 V each. 22x22 x22, 2 lb. #3862 NEW \$35.



PRI: 115/230 VOLT: SEC: 54.4VCT 2.5A 37.5VCT 7.8A

6½x5½x4½; 20 Lвs. SCHOTT ТҮ4КX020A \$12.95



PRI: 117v 50/60 Sec: 6500vct 65Mapc, 4350wv 52x62x71; 35Les 539-6504 \$25.00



HIGH CURRENT CHOKES #6220526, 85 mHY 10 amps; 0.49 ohms DC resistance. 42x32x44, 15 lbs. \$9.95 #6221188, 4 mHY 8.7 amps; 0.083 ohms DC resistance. 4x2 x2 , 4 lbs. \$4.95 #WES30A, 60 mHY 7.5 amps; 0.74 ohms DC resistance. 42x42x4, 12 lbs. \$7.95 #WE1059A, 6 mHY 15 A; 0.11 ohms DC res. Sealed-type. 5x42x42, 15 lbs. \$8.95

#WE1060A, 2 mHY 15 A; 0.14 ohms DC res. Sealed-type. 32x42x32, 8 lbs. \$5.95

#WE241C, 2.5 mHY 25 A; .25 ohms DC res. Sealed-type. 32x42x3, 7 lbs. \$7.95

11 HY 500 MA 55 ohms, 10 KV test. 9x7x6; 42 lbs sh wt. #3c557N/610, used \$12.00 * * * * * * *

1000 ohms 2½ x3½x2½ 4 lbs #A6450 \$4.95 1 hy 235 ma 80 ohm 2x2x1½;8 oz #0146 \$2.00 6.3 hy 6.24s

3½x3x3½; 51t 814-2421 \$4

1.5 mH 30 ADC

51h

100 HY 15 ma



10 Hy 225M; 85 oHM 33x51x5 WT. II LBS. #TF IRXO4YY \$3.95

4.5 HY 150 ma 65 ohms 2500 V test; 23 13 2 2 2 5 lbs. #221-0.035 ohm, 15 Vrms 2400 Hz. 32x5x22, 6 lb #924-0472 \$9. 6642 NEW \$2.95



3.5 HY 500 MA 100 V. 60 cyc 30 ohms 715wv 4x51x31:10 LBS TF1A04KA/A8649 \$2.95

STANCOR CHOKES

#C-1412, 4 Hy 250 ma 60 ; 3 KV in-sulation. 2\(\frac{1}{4}\) X 3\(\frac{1}{2}\) X 3\(\frac{1}{2}\), 5 lbs. Used, \$4.00

#C-2326, 1 Hy 300 ma 43 ohms 1500 V insula-

tion. 2 x3x12, 3 lbs. NEW \$3.

10 HY 45 ma 810 ohms 2½x1½x1½ 2# 3C325-12 \$2. 15 HY 150 ma 4x3x4, 8 lbs #15H150 \$6. 20 HY 80 ma 320 ohms 2 KV insulation; $4x3\frac{1}{2}x3$, 6 lbs

4x3 x3, 6 lbs #38054, \$3.95

117v 50-60cyc 3/5v ct 2 2a 2/5v ct 2 2a 2/2.5v 2 10a



CONSISTS OF A IN BOX 115 V.
60 HZ. WITH
OUTPUT SELECT
OR SWITCH

Pri: 115/230 VAC 50-60 Hz Sec: 320 VCT 830 ma, 2.5 V CT 6 amps. 5x62x42, 18 lbs sh. #TF1RX03NA, \$12.95

Fri: 115/230 VAC 50-1000 Hz Sec: 380 V 600 ma, 230 V 15 ma; 740 WV to grnd. 4x5 x3 12 lbs. #C185028 \$9.95

8 HY 116 ma 250 ohm 1500 Vrms; 32x34x2 TF1AO4YY \$3. 10 HY 75 ma 268 ohms; $4x2\frac{x}{4}$; 3 lbs. #CS13886, \$3.





nominal 208 v 3phase 1940 wv 1370 v rms 52 ma rms per leg 5x52x42;18 lb 686-6836 \$25



\$1.75

|.5 HY |.5 AMP | 5000 v. TEST |82x82x62; | SHPG. WT: 60 LI |5950-|59-6041 0 HYS 500 MA 5 OHM DC RES 500 WORK VOLTS 45950-646-1383

PRI: 115 VAC 60 Hz Sec: 280 VCT 75 MA; 13.5 V 1.2 AMPS; 5 VCT 3 A. SIZE: 42×32×4-5/8; 16 LBS. #193-8767 \$3.95

Pri: 115 VAC 50-60 Hz; Sec 850 VCT 340 ma 700 WV. 42x 5x42, 17 1bs. #FT2546 \$10.

Pri: 115 VAC 60 Hz; Seo: 870 VCT 250 ma 2 KV insula. 5x42x4, 12 lbs. #T5/610 \$8.



Pri: 115/230 VAC Sec: 650 VCT 70 ma, 6.3 V 3.8 A. 32x42x3, 7 lbs sh #M4626/TS1060 \$6.

YRI: SEC: 7x4x31 WT. 12 LB GILFILLAN #54148-1 PRICE: \$5.95



SPEED CONTROL

MARKED OFF-HI-MED-LOW. MARKED OFF-HI-MED-LOW.
PLACED IN SERIES WITH A.C.
LINE & LOAD SELECTOR ALLOWS
100%,40% OR 20% OF INPUT TO
LOAD,100 WATTS. SIZE 4 1/2
X 4 1/2 X 3; 61 LBS.
#230428 NEW \$2.95

J-95/CRD-2 POWER CONTROL BOX for controlling and monitoring 115 or 230 VAC power ciring l15 or 230 VAC power circuits upto 500 watts. Consists of autotransformer w/10 step voltage control from 96 to 137 VAC and 240 VAC. Also features 3½" round l1-reed 55-65 Hz line frequency meter, 3½ " round 0 to 150 VAC meter, 5 and 10 amp circuit breakers, and overload relays. 14½x14x13, 72 lbs sh. Used \$48.



V outputs, 20 amp max-total. Used as stagelight control. 10x10x7, 90 lbs sh. #GR-3-048 \$39.95

MULTI-VOLTAGE ISOLATION TRANS. PRI: 73/88/95/105/ 115/125/190/210/ 230/250. 50/60 cy SEC: 17.6/35.2/189 193/196/200/203 @ 1.6 AMP. 9\(\frac{1}{2}\)x4\(\frac{1}{2}\)x7\(\frac{1}{2}\); 40 LBS. 279619-6 \$14.95



DE-ICING TRANS-FORMER with 0-100 DAVIS DIMMER AC ammeter, 1 KW:
Pri: 115 VAC 60 Hz
Sec: 10/14/19/24 V
On-Off switch,
fused line; 140 lb
16x8x15t, disassembled. #5950-537Voutputs, 20 amp
max-total. Used





Pri: 115 V 60 Hz Sec: 500 VCT 100 ma, 600 VCT 150 ma, 6.3 VCT 3 A Size: 5x42x32, 10 lbs sh. #MB-1281, \$5.95



SWINGING CHOKE, 10/25 HY 125/15 ma. 42x32x41, 6 lbs. #TF1RXO4LB/FGC-29, \$5.95

DUAL CHOKE, 30 Hy 25 ma 1350 & 5 Hy 135 ma 150; 24x5x24, 3 lb. #6663, \$3.

variable transformers

PRIMARIES 0-120,130,140 60 CYCLES. VARIOUS MANUFACTURE USED, CHECKED, GUARANTEED.

AMIP \$4.95 9 AMP \$32. 5.50 45 AMP \$90.

0-240 VAC VARIABLE TRANS-FORMERS, 220/240 primaries 8 AMP \$42. 12 AMP \$65. 9 AMP \$45. 15 AMP \$65. KNOBS & DIAL PLATES INCLD. Other values avail. Write.

12 VOLT 60 HZ input, 0-3.5 V 2 amps out. #5-1066, \$3. VARIAC M-5/RMS11-2, 0-135V a 5 AMPS FROM 114 VAC 400 HZ INPUT, #7486, \$12.95

VARIAC M20BB 120 VOLT 350 20 AMP. MOTORIZED 115V400 #5950-089-7734 NEW \$65.00

115VAC 60HZ 9AMP GANGED FOR TWO PHASE MOTORIZED 115VAC 60HZ CN-54/FST-1

USED,\$50. LESS MOTOR \$45.

Powerstat, 115v. 400/800Hz OUTPUT: 0-130v 7.5 AMPS, 0.975 KVA. #5950-518-2508, New \$13.95

KNOBS FOR VARIACS 2-3/8" dia. fits 3/8" shft. W/ptr. luxitrol, \$1.50

34 dia wheel w/ pointer; f/3/8 shft. \$3.95 4" d. wheel w/ptr. f/11/16' d. shft. KNOB-35, used, \$3.

71" DIA. WHEEL-TYPE CONTROL
W/ALUMINUM POINTER; FITS
1" SHFT. POWERSTAT, \$5.95

DIAL PLATES, UNUSED. 4" DIA. 0-100 SCALE; 7/8" DIA. CTR. HOLE, TAKES 3 SCREWS. #BP8087, \$1.00 EA 10" DIA. 0-100 SCALE; 12"

DIA. CTR. HOLE, TAKES 4 SCREWS. #BP653, \$2.50 EA

TF-238 400 Hz LINE REGULA-TOR, input 100-130 VAC 400 Hz; output 115 VAC -5 V 400 Hz 7.5 KV. Uses 13 ar variable transformer and buck-boost transformer; p/o TPS-1G system. 101x141x94; 55 lbs sh. Unused \$75.

5000 WATT RESULATOR



CN-514/CRC AUTO-MATIC VOLTAGE REGULATOR, regulates inputs of 95 to 135 VAC 47.5 to 63.5 Hz to output of 115 VAC -1% ever a eurrent range of 0 to 43 mps. Uses motor driven variable autotransformer with drive circuit and buck-boost transformer for regulation. Has stendard duplex outlet unregulated output, duplex outlet regulated, and seven Ampkenel-type connector outlets. Also 22° r4 0-150 VAC meter and circuit breaker. Operates in manual or automatic modes. 82x17 operates in manual or automatic modes. 81x17 x15; sh wt two pkgs 70/20 lbs. Used, \$125.00

ANTENNAS

MP-57 MAST BASE with coil MP-57 MAST BASE with coil spring and brown insulator. Use MS-55 or -54 as beginning mast section. Mounts in 22* dia hole as on brackets MP-41-50-60, AB-243. 112 "Hx42" dia, 11 lbs sh. Unused \$10.

Unused, \$15.00 AT-803/VR Center-Fed Broadband Vertical Dipole, 225-400 Mhz; N conn. 92x22; used \$15.

MAST SECTIONS (shown to left) 3 ft. paintmast sections (shown to left) 5 tt. painted, opper-coated tubular steel. Sections screw together to make desired length. with MS-49 as top--then MS-50, -51, -52, and -53. MS-53 can be screwed into another MS-53 for added length. (MS-53 also screws

into MS-54. Sections self-support to 15 feet. Taper 5/8" to 3/16"; 1 lbs sh. May need paint. MS-49-50-51-52-53, used \$1 ea Unused \$1.50 ea. MS-54 used \$2.50; Um \$4. BG-56 CANVAS ROLL BAG f/MS-sections, \$6.

B&W 1KW BALUNS,

and unbalanced feed lines. $4x4\frac{1}{2}x4\frac{1}{2}$; unused.

#700 (10M) or #701 (15M) \$5

step output attenuator, 4° cable w/
ENC connector. Loop 24°H;
12½x5x2½ collapsed. Canvas
bag included; 6 lbs. \$10.00

AT-339/PRC-6 HOM-ING ANTENNA for 38-55.4 Mhz range. Handheld unit has

MP-60 BRACKET f/2" insulator \$6

the missing link between balanced

antenna loads

CW-206 ROLL BAG for MS-116-117-118 mest sections; 40"Lx3"Hx5"W, \$6.00 each.

MS-50 MS-51 MS-51 MS-51 MS-53 FIXED STATION BASE for AT-271/PRC antenna; black phen olic 3½" dia base w/silver-plated receptacle; BNC connection, and load coil 2 lbs. #CAN-100-7555 \$4. MP-47A MAST BASE, similar to MP-57 but 20" long and 8g" dia insulator. 33 lbs sh wt. Used, \$25.00

AB-243 CORNER BRACKET 1/ MP-48-57 and AB-15 bases. (Pictured w/AB-15 below.) 8 lbs sh. Used, \$7.00

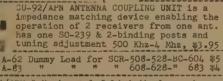
MP-50 MAST BASE BRACKET f/2* dia hole mount \$7.50 MP-63 BRACKET holds base tilted-out, \$5

AB-15 BASE FOR WHIP ANT-ENNA SECTIONS MS-116-117 118 ALSO AB-21-22-23-24. SPRING ACTION WITH INSUL-ATOR 32X3" AND COAXIAL CONNECTOR FOR USE WITH PL-259, REQUIRES 2" HOLE FOR MOUNTING, SIZE | 5 x 3

WT: 2 LBS. \$4.95 WHIP ANTENNA MAST WHIP ANIENNA MASI SECTIONS FOR USE WITH AB-15. MS-116 IS LARGEST, 392"L X .393" DIA; CAN BE STACKED. MS-117 -118 TAPER 392"L. MS-116 OR -117, \$2.50/SEC.

1

CG-1013 TRANSMIS-SION LINE LAUN-CHING UNIT WITH HEATING ELEMENT INSIDE. ALUMINUM W/CONICAL FIRER GLASS SHIELD OVER ELE.COAXIAL CONN. FOR UG-100 PLUG,33" LG. 8" DIA. 10 LBS. \$5 RG-14A/U COAXIAL CABLE 51 OHM #10 W/UG-100 &UUG-707 10' \$7.50 15' \$10



AS-27A/ARN-5 Horizontal folded dipole used BC-733, ARN-5 Receivers 108-110 mhz etc. AT-2/APN-2 DIPOLE ANTENNA, 150-180 MHZ \$5.00 AT-4,38/GR DIPOLE ANTENNA 15" folded, takes FL-259 coax. conn on insulated bracket. \$15 FL-259 coax. conn

ANTENNA WIRE SOLID COPPER #10 VINLY COVERED, 250FT#4884C \$25



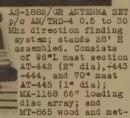
20" DIPOLE , w/14" sup-port. 230-250 MHz; 50.1 LINE MP-54 OFF-SET OFF-SEI BASE FOR AB-15; OFFSET 7" OFFSET 7" POM BASE CONNECTOR. FROM BASE CONNECTOR. CTR. 112"H. #2A288A-35 \$7.95 \$6.95

VIS-O-GLOW NEON LIGHTNING ARRESTORS, #4392, \$1.00 EA

8 FOOT DISH ANTENNA

AS-554/TRC 8' dia ANTENNA with aluminum mesh parabo with aluminum mesh paraboloid surface. Designed for 1700-2400 Mhz with 30 db gain; 4.5 Mhz bandwidth. 20 db major to minor lobe ratio. Rugged military construction; locks like one can add onto and extend the cast aluminum supports to increase dish diemeter. 36" feedhorn focal length; 16" fall from edge to center. Shipped in sections with feedhorn and yoke. Mesh may have minor but yoke. Mesh may have minor but reparable breaks. 425 lbs sh wt. Used \$350.

PORTABLE ANTENNA



al gimble base. Also four GP-2 15" stakes, three 16" guy stakes, three 32' 1/8" th steel guy wires with insulators and clamp, loading resistor, canvas bag, and canvas case. 100 lb: sh wt: motor freight only. Used, \$79.50

AB-24 MAST SECTION, terminates MS-116-117, 27" long, used, \$2.50 ea.

AN-45 Antenna f/BC-620 (SCR509-510) transceiver; telescopes 17½*-98½*, unused \$7.50
AN-130 Whip Antenna for BC-1000 (SCR-300);
30" on flexible gooseneck base, \$10.00

30" on flexible gooseneck base, \$10.00
AT-272 Goose neck flexible base 8" used with
flat antenna on PRC sets. \$2.
MT-652/GR ANTENNA BASE f/MS-116-117-118; fit:
RT-66-67-68-70, R-108-109-110. Used \$5.
GCI-5104B WHIP ANTENNA Telescoping, ft.
extended,15" collasped. \$2.50
AT-272 FLAT RIBBON ANTENNA, 30" long as
used with PRC-8-9-10 radios; used, \$3.
MP-74 GOOSENECK BASE for MS-118/AB-23 Mast
Sections,14" lg. w/spade type bracket
for side mounting. \$2.00
M-422 ADAPTER for using MS-116/AB-23 sections
with PRC & BC-1000 as long ant. \$2.00

AB-129 Rubber Base f/AT-271 on PRC-8-9-10 \$2. AB-591 Rubber Base f/AT-271 on PRC-25-77, \$4. AB-1093/USQ-42 WHIP ANTENNA w/spring base and PL-259 connector on base bottom. Lower two sections telescope 21"-35½"; screwon 18½"L wire-like top section. NEW \$15

40-100 MHZ YA61 ARRAY

AS-756/TRC TWO 3-ELEMENT YAGI ARRAY for 40-100 Mhz range, 5 db gain; vertical or horizontal polarization. Consists of array spacer bar, two antenna booms, and 12 each long, short, and subassembly antenna elements. Component lengths adjust according to frequency: spacer 58"-112", booms 72", elements 40"-58". Matching transformer built into each boom. 10x77*x20 transit case and spare components to make third yagi; 185 lbs sh. Unused \$79.50

AB-101 MAST SECTIONS for ANTHNNA SUPPORT, steel mast 2" dia X 68" long with swaged and locking device: sold in sets of 7 onl and locking device; sold in sets of 7 onl; 100 lbs sh - no UPS. Used, 30.00 \$32.00 AB-318 GINPOLE swivel base a/stake; 1-5/8" dia. Slips into mast section. Used \$\frac{1}{2}\text{MX-378} GUY RING for 1-3/8" masts; attach guy rope or wire at corners, \$.75 ea CR-325 GUY RING for 3\frac{1}{2}" dia masts, \$1.25 ea Used \$5. MX- Guy Ropes are 3/16" dia nylon, 800 lb test; w/adjust hardware, hook & insulator MX-382 31 ft used \$2. MX-1469 44 ft Unused \$4 GP-2 GUY STAKE, steel 16% *x * dia; 1-1/8" head, 1-3/8" point. 2 lbs, 85¢ ca 4/\$3.

ARA-SI HOMING SYSTEM



AN/ARA-31 ANTENNA SYSTEM HOMING

For use in the 24 to 49 Mhz FM range. For use in the 24 to 49 Mhz FM range. Complete system consists of four AT-624 24" antenna elements, two CU-459 ant. element connectors, a KY-149 keying unit w/mtg. and one SA-474 switch box. BNC connections except for one reverse pole BNC. An/ARA-31 w/manual, new, \$50. AT-624 antenna element, \$8.00 each. CU-459 antenna connector, \$5.00 each. SA-474 switching box, \$6.00 each. KY-149 keying unit, \$25-00 each \$18.95

LP-21 LOOP ANTENNA, used with 200-1500 Khz radio compass receiver; has 24 V 400 Hz motor for rotating loop and autosyn to transmit to I-82 or similar indicator Teardrop shape for aircraft; 30 lbs. \$25

AS-578/ARA ANTENNA for ARC-27-34-55 direction finding sets; 15 lbs. Used. \$25.

AS-313/ARN-6 ANTENNA LOOP for AN/ARN-6 radio compass system; 18 lbs. Used, \$15.



COAXIAL RELAY, 12-24 VDC SPDT w/aux SPST n.o. 10 amp contact; 100 W 50 ohm. 2-RCA contact:

plugs & SO-239 connector; w/cover. 21x21x12, 2 lbs. Unused \$6.

SPDT COAXIAL SWITCH rated DC to 5 Ghz, approx 1 KW. 28 VDV motor drives contact bar. Requires 3-"LT" con-nectors (as used on RG-17 coax).and one

7-pin control connector. 6x6x9, 8 lbs; Thompson-Ramo #Cl4K2CA, unused, \$27.95

SPOT ANTENNA RELA

SPDT ANTENNA CHANGEOVER RELAY,6 vdc 20 ohm.
Contacts appear to be good
to 100 watts.BNC type conn
3x1tx2. #5945-539-3025 unused\$7.95



WESTERN MICROWAVE ICL35A FERRITE ISOLATOR, 1.7 to 1.8 Ghz; 17 db isolation loss, 0.7 db insertion loss. 2 watts ave. Has male and female ty conn. 2x3-3/8x11, AUTOMATE COXIAL SWITCH, MODEL type N

94CSA, used with above isolator. Two separate 28 vdc spdt coils, ea. one side norm. gnd.
Two female TNC & one type N conn. Size 32x12x3 used 212.95 Wisolator



RF CHOPPER USED AUTOMATIC DIRECTION FINDING ANTENNAS TO SAMPLE BETWEEN

SENSE AND REFERENCE ANTENNA. USES TWO 100 Hz -5% coils; can be actuated manually with DC voltages. Has two UG-88 connectors on 15" cables and UG-290 BNC output conn. 4-3/8x3\frac{1}{2}x2; sh wt: 3 lbs. Removed from equip. #354-1013-00, \$2.95

ANTENNA's from CANADA: UHF-type for 243 Mhz approx. 23° 1g; screws into hard rubber base that mounts onto a mounting base. Rubber base has provision for Canadian coax fitting. Aerial #9 w/24° base, \$5.

Cone-shaped aerial base #8, hard rubber, 5" dia. X 4" h. With 96" whip an-tenna. #PC-8-96, \$8.50



CABLES

MEW = COAXIAL CABLE

PRICES LISTED FOR LENGTHS INDICATED, IN-BETWEEN LENGTHS USE THE HIGHER PRICE. LESS THAN 100 FEET ADD 10% TO HIGHEST PRICE

COAX		100	500	1000	5000
RG #	Ohms	feet	feet	feet	feet
RG-8/U	52	.22	.21	.20	.20
RG-11/U	75	.20	.19	.18	.18
RG-58/U	53.5	.11	.10	.09	.09
RG-59/U	73	.12	.11	.10	.10
Prices	subje	ct to	change	without	notice.

COAXIAL CONNECTORS







PL-258 JUNCTION 59¢ ea. 69¢ 75¢ ea. 10 or more 10 or more 10 or more 55¢ ea. 65¢ ea. 70¢ ea. \$1.25 ea 10 or more \$1.10 ea.

#SH-SO-239, one hole mt SO-239 60¢

#83-58FCP, short barrel PL-259 for RG-58, 50¢ UG-536 "N" conn. for RG-58, \$1.

COAK CONNECTORS

CONNECTORS & ADAPTERS: (m) male, (f) female, (bulk) bulkhead, (rec) receptacle, (r/a) right angle; (U) used, (Un) unused.

(bulk) bulkneau; right angle; (U) used, (Un) unuseu.
right angle; (U) used, (Un) unuseu.
TYPE ENC: UG-88 m (RG-58) U- 45¢ ea, 10/44.
TYPE ENC: UG-88 m (RG-58) U- 45¢ ea, 10/44.
U-\$1
UG-999 bulk
UN-\$2 -911 bulk Un-22 -913 m r/a Un-22 -1090 to post U-32

-306 90 m-r on \$2.
-260 m (RG-59)U-65¢
-273 to UHF Un-\$2.
-282 to post \$1.50
-290 f rec U-65¢
-291 f panel U-\$1. -912 bulk Un-\$2 -1441 to two banana jacks U-

TYPE C: UG-573 m (RG-8) U- \$1.50 each.
UG-626 m (RG-21) U-\$2 UG-710 m r/a Un-33
-943 (RG-12) U-\$3

UG-18 (RG-21) Un-\$2. UG--27 m-f r/a Un-\$2. -

-30 f-f bulk Un-\$2.

-536 (RG-58) Un-31 -58 f chas U \$1.50 -997 r/a rec Un-34

-100 m U-\$1.50 DA-113 dummy -100 panel U-\$1.50 -109 f/UG-100 \$1.50 -212 HN r/a UG-100 m √U-\$5 -212 HN r/a Un-\$3

M-359 elbow: PL-259 to SO-239, U-40¢ Un-75¢ UG-175: reduces PL-259 for RG-58, NEW 35¢ -176: " RG-59, NEW 35¢

COAX CABLES from mil-equipment; used-usable: RG-9 w/two UG-573 *C* connectors, 13" \$2.50 RG-58 w/two UG-88 ENC conn., 4' min., \$3.00 RG-59 w/male & female *N*, 50', #GG-357, \$3. RG-213 w/two right angle male *N*, 3', \$6. BATTERY CABLE, 2-cond #8, 8 ft, \$3.00

VINYL-COVERED HOOK-UP WIRE, various colors; all stranded copper. On orders above 2000' we may not be able to ship continuous length. #12 wire \$7.50/100 ft \$50/1000' #16 \$65/5000' \$42/1000' \$185/5000' #16 \$4/100' \$20/1000' \$65/5000'

#18 \$3/100' \$14/1000' \$65/5000' #20 \$3/100' \$12/1000' \$45/5000' #22 shielded \$3.50/100' \$22/1K' \$75/5 #26 solid \$6/500' \$9/1000' \$30/5000' 100' \$22/1K' \$9/1000' \$30 #30/5000

COMPUTER CONTROL CABLE in black PVC jacket, #24 wire in color-coded vinyl; LV-low voltage cond 10' 100' 500' 1000' #CC24-28LV 28 \$/ft .45 .32 .28 .22 .22 .24 .18



CX-263/G CABLE W/U-226 waterproof and looking connector. 102'
cable has 5-19 AWG
copper and steel
stranded pairs.
U-226 contacts gold-plated; can be rewired
for 12 AWG. U226 mates to U226. 4 lbs. 2/37.

RF and AUDIO CONNECT-AMPHENOL ORS, all new package; Male (M), Female (F)

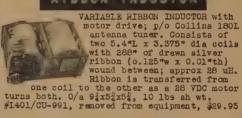
Sq e BNC quick assembly:
#31-4700 50 (M) \$1.
#31-4702 70 (M) \$1.25; -4703 70 (F) \$1.25

UHF-types: #82-23 (M) to (F) w/ground, \$1.50 #83-5SPA, press male to (F) adapter, \$1.25 83-58FCP, short barrel FL-259 f/RG-58, \$.50

83-877, adapter with FL-259 each end, \$1.25 83-878, single hole mount SO-239, \$.60 M-358, adapter *T" 2-(F) to (M), \$1.75 #81-103 mini plug or #81-104 mini jack, \$.50 MICROPHONE CONNECTORS, all males 1 diameter

#80-23 80-876 80-872 80-878 80-886
press lock extended lock threaded
fit 60g ring \$1 pins 60g ring \$1 barrel \$1

RIBBON INDUCTOR



618S-1 POWER AMPLIFIER, p/o Collins 2-25 Mhz 100 watt transceiver. Has 12.3 uH roller inductor; coil 32x12 dia with 27 turns #14 silver-tinned wire rotated by 115 VAC 400 Hz selsyn. Also ten Centralab 850 HV capacitors 10 pf, 50 pf, 7/100 pf, and 1000 pf. Big silver contacts on ceramic switch; uses three 6159 tubes. 11x5x6, 10 lbs #3496/616S-1, less tubes, \$22. With tubes \$30 MATING CONNECTORS, 2 required, \$2.50 each. SCHEMATIC for 618S-1 power amp. \$1.50 SCHEMATIC for 618S-1 power amp, \$1.50



ROLLER INDUCTOR ASSEMBLY ROLLER INDUCTOR ASSEMBLY with motor drive, 3.4% long x 1.75% dia. coil; 28 turns #18 wire. Approx. 14 uHy with center tap. 115 VAC 400 Hz 20 watt motor turns the coil. Originally used to automatically resonate an antenna to a transceiver's frequency. 0/A 4½x2½x3½; 5 lbs. sh. #T301/CU-991, \$14.95

COLLINS 250 KHZ I.F

250 Khz IF ASSEMBLY from Collins 618S-1 transceiver.
Has 250 Khz mechanical filter with 6.7 Khz width and tubes 3/5749 and 2/5726.
42x6x32, 3 lbs sh wt.
#IF250-67/618S1, used, \$12.95

250 Khz IF ASSEMBLY from RT-311/ARC-38 transceiver. Similar to above but with two mechanical filters--one 2 Khz width, the other 8.5 Khz. #IF250/ARC38 \$24.95



250 KHZ CRYSTAL OSCILLATOR 250 KHZ CHRYSTAL OSCILLATOR from Collins 61851. Has 250 Khz BFO oscillator coil, crystal oven with CR-46 250 Khz crys-tal, and 2/5749 tubes 4\frac{4}{2}\frac{1}{2}, 2 lbs sh. #OSC-250/618S1, \frac{3}{6}.95

XMITTING CAPACITORS

MICA TRANSMITTING CAPACITORS, GSERIES TYPE IN USED OF UNUSED
CONDITION DEPENDING UPON A VALUE'S
AVAILABILITY. VARIOUS MANUFACTURERS. SATISFACTION GUARANTEED OR
PURCHASE PRICE WILL BE REFUNDED. OTHER VALUES IN STOCK. WRITE.



KV MFD -C1, 21 h x 22 dia, wt: 3 lbs. \$12.50 eas 1.0 0.04 6.0 0.0001 1.5 0.08 6.0 0.0002 3.0 0.02 6.0 0.0002 4.0 0.0062 10.0 0.00015 62, 5½ h x 3" dia., wt: 5 lbs. \$18.50 2.0 0.03 10.0 0.00015 2.0 0.045 10.0 0.00057 5"h x 4" dia., wt: 8 lbs., \$27.50 eac 2.5 - 0.15 6.0 0.006 2.5 0.15 6.0 0.006 5.0 0.02 20.0 0.00015 04, 5*h x 5%* dia., wt: 12 lbs, \$39.50 ea 4.0 0.084 6.0 0.0375 6.0 0.0224 10.0 0.02 0.084 6.0 0.0378 0.0224 10.0 0.02 dia. wt: 22 lbs, \$59.50 ea 0.02 15.0 0.0082 G5, 10 %h x 62 % 0.0068 35.0 15.0 0.0002

ROBOTICS MOTORS

15° STHPPER MOTOR, removed from computer printer; originally used +9 to +40 VDC pulse. Hi-speed, hi-performance; w/original driver oircuit dia-gram. lx2" dia shaft; o/a 54x1-5/8 dia, 2 lbs BINDER #4-62 42field \$17.50; #2-62, 22, \$17.



15°4-PHASK VR STEP SERVO, 5 ohms
1.5 A/Ø; 28 VDC imput pulse. 2x
2" dia shaft; o/a 3x32x3, 2 lbs
sh. Made in Canada; removed from
equipment. #20M34C1, \$9.95

26 VDC REVERSIBLE MOTOR with 26 VDC REVERSIBLE MOTOR with clutch for fast stops; 12K RFM @ 26 VDC 1.2 amps. Clutch engages at 10 VDC which allows variable speed over 10-26 VDC. Rated for intermittent duty. Spline 5/16" dis shaft; e/a 4xl½" dia, 1 lb. #SR-215 NEW \$6.95



GE DC COMPOUND MOTOR 1/8 HP
115 VDC 1.5 A 1725 RFM; has
air pressure brake. P/o tape
drive; 5x12x5, 18 lbs sh.
#5BC-12RA49, used, \$14.95
30 RFM MOTOR GEARBOX, 115 V 60 Hz with
fast stop solencia clutch; 3x3/8* dia
shaft. 32x102x32, 10 lbs. #3732U-600. \$9.95
GE #5BC48AB5504 LTD DC CUMPUN COMPOUND FORM

GE #5BC48AB550A 4 HP DC SHUNT COMPOUND MOTOR, armature 115 VDC 2.1 A; field 40 VDC 1.2 amp. 1140 RFM. Double end shaft 2x5/8 and 4x5/8 dia. Casing 112x62 dia. 60 lbs sh. Used \$22

160 RFM DRIVE UNIT w/clutch has Globe G-254512 27 VDC 15000 RFM motor and 27 VDC clutch assembly. Motor operates with good torque over 5 to 27 VDC. 160 RFM output on 3/16" dia X 2" 1g shaft. 0/A 32x42x32, 3 lbs. #160DRV/618 used \$8.95



100 RFM 12 VDC GEAR MOTOR, output at 3/8" x 1/8" bar which would mate with slotted shaft (not included). Also 3400 RFM available on 5/32" dia x 1 g shaft. 0/A 51x2 x2-3/8; 3 lbs sh. #LEE-11152S unused, #8.95

MOTORS

115 VOLT AC-DC MOTOR, starts at 15 VDC; runs counter
clockwise. 3" dia X 5½* 1g plus
5/16" dia X 1-1/6" 1g threaded
shaft. 5 lbs sh. #AC-DC-R102, unused, \$4.95 ll5 V AC-DC MOTOR, starts at 25 VDC, runs clockwise. 22 XXx4 plus 5/16 dia X 1 n long machined spiral shft. 3 lbs. #AC-DC-H102, \$3. VDC 10 AMP 250 RPM MOTOR with brake which actuates when DC input is approx.
5 volts. Duty cycle 30 sec on, 300 sec off. 0/A 22x2xx62 plus 7/8* long X 3/8" dia. shaft. 5 lbs sh. #2312-6, \$7.95



HAND-CRANK MAGNETO GENERATORS OUTPUT APPROX. 100 VOLTS DEPENDING ON SPEED OF ROTATION. USED TO RING BELLS IN TELEPHONE LINES. CAN BE USED FOR

worm shocker and other experiments; 4x2; 2 lbs sh. G-42 w/orank, used-checked, \$12.00 GN-38B w/exposed gear crank, p/o EE-8, \$16.



DC AIRCRAFT MOTOR; GE#5BA-50LJ29, 0.4 HP, 3000 RPM.
MARMATURE: 60v. @ 2.3 AMPS
FIELD: 27 VOLTS @ 6.5 AMPS
DUTY: 10 MIN. @ FULL RA-

SHAFT IS CORKSCREW-E MTG. 3½ CNTS. II LBS. \$4.95 TING. TYPE 5/8 INCH DIA. FLANGE MTG. BODY SIZE: 62x42x42 WT: 11 LBS.

VARIABLE SPEED DRIVE CONTROL USED WITH MOTOR AM No. E-85-132. GE#3S750RJ750AJ, FIELD 100 voc ARM.,140 voc., 2.6 A INPUT 230 v. 50/60 Hz. 5 LBS Unused w/schematic \$15.00 Unused w/schematic \$15.00



JOHN OSTER TYPE C-24A-IB KS-5829 SERIES MOTOR; 27 VDC, 0.01 HP, 7000 RPM. SIZE; 3x2 DEA.; SHAFT: IX2 DIA. WT: I LB. Unused, \$2.95

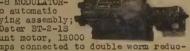
LOW SPEED DC GEAR MOTORS.



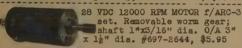
Various styles similar picture; approx speeds given @ 24 VDC. Slower given w 24 vbc. Slower
speeds at reduced voltages to 7 VDC minimum.
3 l. 1 l. dia. Used-scar corresion-tested OK
#30 RFM-DC-CM \$8.50 #70-100 RFM-CM, \$8.75
#200-300 RFM-DC-CM, \$8.50

GE MINAGGEAR MOTOR, 328 RPM
3/8" dia right angle
output shaft; other 3500
RPM 5/16" dia shaft, 5 in-1b
torque. Requires 115 VAC 60
Hz and 7 mf 220 VAC capacitor; o/a 4x10x3,
8 1bs sh. GE #SKCM49NG, used, \$8.95
CAPACITOR for above, 7 mf 330 VAC, \$1.35

MD-34/ARA-8 MODULATOR-KEYER, p/o automatic homing keying assembly; contains Oster BT-2-1S



contains Oster BT-2-1S
28 VDC shunt motor, 12000
RPM 1.1 amps connected to double worm reduction with output of 32 to 50 RPM over 10-26
VDC. Also has phase shift capacitor and RF
UHF connectors. 3½ x10x4½, 5 lbs. Used, \$3.95





HAND CRMNK GENERATOR AS USED IN GIESON GIRL RESCUE TRANSMITTERS OUTPUT 28 VDC © 175 MA & 300 VD @ 30 MA. WHEN CRANKED AT 60 RPM GEAR RATIO APPRX. 72 TO 1. NO LEGS SEAT OR MOUNTING. #GEN/CRT-3 RE-MOVED \$12.00

Hysteresie Synchronous Motor 115v 60hz,1800rpm,cont. 1/8hp FL. MTG. 7", shaft 2"/|"xz dia. size 6x5, cap. st. used 25le. Bodine#NCH-54 or equal \$86 \$16



DC MOTOR, operates over 10-15 VDC 100 ms 2575-2425 RPM with governor. Shaft 5/16°L xl/16° dia; e/a 2-7/8xl-1/8. #AST-GK26 \$7.95

MOTOR DRIVE ASSEMBLY f/vacuum variable capacitor. Uses
1/100 HP 15000 RFM 28 VDC
motor (2"Ix12" dia.) Has worm
drive from motor to a series
of gears geared to a 2" lever arm with 2" vertical motion. Also has limit switches and Cinch DA-15 15-pin connector. O/A size: 8x 5½x2½, 3 lbs sh. #DRV501/CU991, used, \$9.95



WE KS-5871-LOI MOTOR, 28.8 VUC @ 3.3 A. 5600 RPM, 0.04 HP SERIES WOUND. CON-TINUOUS DUTY; REVERSIBLE WITH SPEED GOVERNOR. (MAY ALSO OPERATE AT 12 VOC AT 61x3 DIA. SHPG. WT: 7 LBS. USED \$7.05

GLOBE DC MOTOR, 27.5 VDC 2.4 A 0.035 HP 7400 RPM; 21"L z 1-5/8" dia plus 1"Lx3/16" dia shaft. #621-6822 unused \$7.95



#A7155 DELCO DC MOTOR, 28
VDC 2.4 A 1/30 HR 3600 RFM.
Size: 51x2; dia; shaft 1"
xi dia, 2 lbs. Unused \$4.



PD-5/ARA-19 TUNING DRIVE, p/o ARN-6 remote tuning system. Uses 27 VDC 250 RPM Delco PM motor. Also 10-turn 1000 ohm linear pot driven by gear from the motor. Output with female

MC-124 spline shaft, Motor shaft 3/8* long X 1/8" dia. 0/A 5½x4½x2½, 4 lbs sh. Used, \$9.95 Mating conn. \$2.50; MC-124 spline, 20", \$1.50

28 VOLT MOTOR, 135 RPM;
HP: I oz/in. With 5/16x;"
DIA. GEARED SHAFT; HAS 4
SOLDER TERMINALS ON IXIXE
BLOCK. MOTOR SIZE: 5x1-7/8 DIA. WT: I LB.
GE#5BA10FJ444
USED, \$7.95



HEAVY-DUTY TAPE RECORDER MOTOR, 115 VAC 60 Hz 1500 REM; 3½x3½x2½ overall, shaft 1½x5/16° dia. 5 1bs sh wt. #D6-20220, used, \$5.95

B-701/R-107 MOTOR FROM AS-313/ARN-6 LOOP ANTENNA. OPERATES FROM 26 VOLT 400 Hz @ 2750 RPM. WILL OPERATE FROM 12 60 Hz. Size: 3x22x3 WITH 3/8" GEAR. WT: 2 LB. Price: Used, \$1.95



HOLTZER-CABOT #1981-HC 120 VAC 400 Hz GEAR MOTOR, 6 RPM with 40 oz.-in. torque. Shaft ½" long x 0.2" dia. Overall size: 2½x2½x3, 5 lbs sh. #1981-HC, unused \$14.95

230 VAC 60 Hz; approx 32 RFM.
5/16" dia shaft X 7/8" long;
Size: 22x32x3, 2 lbs sh.
b-C #108134483 NEW, \$3.95



MOTOR W/RIGHT ANGLE SHAFT & MOUNT, 1/8 HP 230 RPM.
SHAFT SIZE: 5/16" LONG X
3/8" DIA. CLEARANCE BETWEEN
SHAFT AND MOUNTING ABOUT!"
REQUIRES 115 VAC 60 HZ @
1.9 AMPS. SIZE: 7x3% DIA.
WT: 15 LBS. ROBBINS & MEYERS #KL-H330, \$12.95

SA-28 AIRCRAFT INSTRUMENT ASSEMBLY with 27 VDC PM

ASSEMBLY with 27 VDC FM motor, 10000 RFM with worm gear assembly and other parts. Motor size lixlxl, 3/16" dia shaft: o/a 6"Lx3;" dia, 2 lbs. Unused \$6.95

D.C. LINEAR ACTUATOR; 26 vDc 2a. 400 RPM. 45
OZ IN. TORQUE, APPROX. 2" ARM TRAVEL ON THREADED SHAFT, REQUIRES LIMIT SWITCHES, HAS NO PROVISION FOR OVER TRAVEL. HAS BRAKE FOR FAST STOP. SIZE 5x1; IN.GE#5BAIOFJ450 USED \$8.95

PM MOTORS, each 27 VDC 1/100 HP; 12x1-1/8" dia plus 2"L x3/16" dia geared shaft. Used, e #R116-100-FM, 15000 RFM, \$7. #C-3A-1114-FM, 9000 RFM, \$5.95





RECORDER MOTOR, 1500 RPM; 2" SHAFT IS 3/16" DIA. FOR 12"; 3/64" DIA. LAST 2". 3/8x3/16" DIA. SHAFT ON OTHER SIDE. MOTOR SIZE; 2\(\frac{2}{5}\cdot x\)2\(\frac{2}{5}\cdot x\)2\(\frac{2}\cdot x\)2\(\frac{2}{5}\cdot x\)2\(\frac{2}{5}\cdot x\)2\(\frac{2}{5}\cdot x\)2\(\frac{2}{5}

200 RPM 32 V 60 Hz GRAR MOTOR, has shaft l"xi" dia and 3/16" dia shaft for fan. For intermittent use, increased voltage increases torque. 0/a 5½x5x2½, 3 lbs. #MOL-2460, unused, \$3.25 120 RPM 115 V 60 Hz GEAR MOTOR, 1" d shaft w/plastic gear. 4x3x21, 3 lb. #ZGM30108, \$3.50



VICKERS AR-10007G 115 VOLT 50/60 CYCLE SELENOID OPERATED AIR VALVE ONE INLET ACTUATES TUBE PLUNGER | ** STROKE. USED PLUNGER 1" STROKE. USED SIZE: 6x42x22; 5 LBS. \$12.95



CONTROL TRANSMITTER SELSYNS, similar to AY201 rotor 26 V 1 \emptyset , stator 11.8 V 3 \emptyset 400 Hz; usable in wind direction and antenna positior projects. Various mfg; 1 lb. #WD-CX-SEL \emptyset 6.

Projects. Various mfg; 1 1b. #WD-CX-SEL \$6.

AY-|65 AUTOSYN DIFFERENTIAL, 400 CYCLE; 11.8

V. 3 PMASE ONE TO ONE RATIO. BENDIX & OTHERS.

SIZE:|2x|2. PRICE: REMOVED FROM EQUIP. \$2.95

AY-23! AND AY-232 SAME SPECS. AS ABOVE.

15CX4 TRANSMIT 115 VAC 400 Hz, used, \$4.95

15R341 RESOLVER 26/11.8 V 400 Hz, used, \$4.95

23CX4 TRANSMIT 115 VAC 40 Hz, used, \$8.95

23CX6 TRANSMIT 115/90 V 400 Hz, used, \$10.00

23CT4 CCNTROL/TRANS 115 V 400 Hz, used, \$8.95

23CT6 TRANSFORMER 90/1 V per degree 60 Hz \$10

ZJICI SELSYN

ZJICI SELSYN

CONTROL TRANSFORMER, 57.5

VAC 400 Hz; usable in pairs
for remote position indication
and light duty turning applica
tions. Operable from 24 V 60 Hz with good
resolution and torque. \$* long shaft tappered
\$\frac{1}{2}*, then threaded \$\frac{1}{2}*. O/a \frac{1}{2}*2\frac{1}{2}\$ dia; 2 lbs.

#ZJICI, less connector cap \$7.50; w/cap \$9.50

WK IT SIZE A SETSYNS. 115 VAC 60 Hz; cold in MK II SIZE 6 SELSYNS, 115 VAC 60 Hz; sold in mated pairs for rotational and position-indication uses. 7kx4 dia, 12 lbs/pair. Used-checked, various manufacturers, \$45/pair SIZE 5 SYNCHRO DIFFERENTIAL RECEIVER, 115 VAC 60 Hz; used to show the sum or difference of two angular motions. 52x32 dia, 5 lbs. \$10. OTHER SELSYNS AVAILABLE. WRITE YOUR NEEDS.

2JIHI SELSYN DIFFERENTIAL GENERATOR
NORMALLY OPERATES FROM 57.5/57.
VOLTS 400 CYCLE BUT WILL OPERATE FROM 26 VOLT 60 CYCLE AS
SHOWN IN WIRING DIAGRAM ON PAGE
31. SIZE: 22x42; WT: 80Z.
PRICE WITH CONNECTOR CAPS......\$3.95

DAYSTROM TRANSCOIL CONTROL MOTOR 115

POLT 60 CYCLE, I PHASE, 2 PHASE 200 VOLT

CT., 3200 RPM. SIZE: 22x2, SHAFT SIZE:

1/16x2 WITH GEAR. REMOVED FROM NEW EQUII

MENT. PRICE: \$5.00



TACHOMETER GENERATOR, motor 26 V 400 Hz 2 Ø; generator 18V 400 Hz 0.3 V/1000 RFM. Ne load speed 10000 RFM. 2-1/8"Lx1" di 3/16"Lx1/8" dia shaft. #TACH-SKL-MOD, \$7.95

ROBOT SEAR BOX

ROBOT GEAR BOX with two electrically independent 3 VDC motors which are loose-ly magnetic coupled. One gear has holes with diodes used as optocouplers to sense rotational speed.

Has two 3/8" dia splined shafts (48 RPM @ 3 VDC). This plastic gear box could be used for light-duty robot, cart, or animation projects O/a 72x42x22, 2 lbs. #WD-4955-18, \$3.50 4/\$11

LINEAR ACTUATOR, STAT. 200,
TENS. 40, COMP. 40. ARM TRAVEL
5/16". MOTOR 115V. 400 Hz, 1600
RPM. DUTY 1/10, 0.04 HP. TORQUE:
6.7 IN-OZ. SIZE: 5x5x3½ WT: 5 LB.
AIRSEARCH#34930 USED \$3.95





LINEAR ACTUATOR, STAT. 200, TENS 75-100, COMP. 75-100. ARM TRAVEL \$". MOTOR ||5v. 400 Hz., 0.025 HP 6500 RPM. DUTY |/10, TORQUE: 3.9 IN-0Z. SIZE: 5x8\frac{2}{2}x4\frac{2}{2}xT: 5LB AIRSEARCH\frac{#}{3}D146-120 USED \\$3.95

CHILD'S PHONOGRAPH TURNTABLE. 7" dia plastic platter with 115 VAC 60 Hz moter; selector switch for 33-1/3 or 45 RFM. Designed for child's record player. 2 lbs. BSR #M143AC37, NEW, \$3.00



SMALL RECORDER PM MOTOR, operates 4 to 12 VDC, reversible. 1/8x5/32* dia shaft; 0/A lixle dia, 1 lb. #R-S57141, NEW \$2.; w/pulley \$2.25



PRR- RECEIVER

AN/PRR-9 FM HEIMET RECEIVER, extremely lightweight single channel radio in the 47-57 Mhz FM range; 5 mw nominal power output.
Uses CR-81 type orystal (not available); 455 Khz IF. Requires V 25 ma originally supplied BA-505 battery (not available)

With AS-1998 antenna and H-264 headset. 7x3; x1;, 2 lbs. Used \$38. Less AS-1998/H-264 \$25. OPERATOR'S MANUAL for PRR-9, \$7.50

ID-1189/PR CHANNEL ALIGNMENT INDICATOR, designed to test AN/PRR-9 and AN/PRT-4 transmitter. Has 47-57 Mhz signal generator; checks both sets' batteries. Instructions, probes, and transit case in-cluded. 12x112x6, 15 lbs sh. Used, \$45.00



12 MHZ TRANSCEIVERS

RT-77/GRC-9 RACKPACK TRANS-CEIVER, covers 2-12 Mhz AM CW in bands 2-3.6, 3.6-6.6, and 6.6-12 Mhz; Hi-LO out-puts 7/1 watt (AM), 15/5 W (CW). Receiver section has 456 Khz IF and calibration points every 200 Khz. Transmitter can be contin-uously tuned or two preset channels; uses 2E22 tube in power amp. 3et also in-cludes tubes 2/11A, 3/1R5, 1S5, 3/3A4, 3Q4; requires 580 vde 100 ma, 6.6 vde 2 amp, 120 vde 45 ma, 1.5 vdc 500 ma, 6.9 vdc 575 ms. RT-77 was used in field and vehicular installations with a number of power supplies designed for



with a number of power supplies designed for it such as CN-58 handorank generator available below, PE-237 6-12-24 VDC vibrator supply, DY-88 (12 VDC) & DY-105 (24 VDC) dynamotor supplies, PP-327 115 VAC supply, 16x13 x8, 35 1bs ah. Used, \$39.95; MANUAL, \$8.50 CN-58 HANDCRANK JENERATOR, with legs, seat, two cranks; powers RT-77 at reduced outputs 3.6 W (AM), 10 W (CW). 39 lbs sh. Used \$35.

CONNECTOR for GRC-9 as available, \$4 w/set. HS-50 HEADSET w/CD-604 cord, used, \$7.50 T-17 MICROPHONE used \$6.95; reconditioned \$9. J-45 LEG IRON w/J-57 KEY, used, \$12.00 TRANSMITTER only from RT-77, #XMT/GRC-9. \$25.

TO BE WHE RECEIVED



R-110 RECEIVER 38 TO 54 MHZ FM R-IIO RECEIVER 38 TO 54 MHZ FM CONTINUOISLY TUNEABLE, VARIABL SQUELCH AND AUDIO, OUTPUT IMPEDANCE 600 OHMS. 4.3 MHZ. I.F. WITH TUBES 3/IU4,2/IL4,IA3,2/3A5,IS5,2/3C4,2/6AK5 & OB2. VOLTAGES REQ. 135 VDC @ 70 MA. AND 6.3 VDC 2 AMPS. SIZE: 9XI3X72; WT: 32 LBS. USED \$35.95

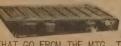
-100

RECEIVER, SAME AS R-110 ABOVE EXCEPT 20-28 MHZ. USED \$21.95

R-108

RECEIVER, SAME AS R-110 ABOVE EXCEPT 27-39 MHZ. USED \$27.9 USED \$27.95

PP-282 POWER SUPPLY 24 VDC FOR R-108-109-110 RECEIVERS. MOUNTS INSIDE REC. USED \$5.95



SHOCKED-MOUNTINGS FOR

SHOCKED-MOUNTINGS FOR GRC SERIES RADIO SETS. ALL HAVE APPROPRIATE CABLES & CONNECTORS THAT GO FROM THE MTG. TO THE SET & BATTERY, BUT THEY DO NOT HAVE JUMPER CABLE UNIT-UNIT. MT-297/U HOLDS R/T,PS,REC.,RT-70,MM-65,C434 SIZE: 33½x13½x4½; WT: 75 LBS. USED \$25.00 MT-298/U HOLDS TWO (2) R/T & TWO(2) PS. SIZE:37½x13½x4½; WT: 85 LBS. USED \$20.00 MT-299/U HOLDS ONE RT-66,67,OR 68 & ONE PS. SIZE:18½x13½x4; WT: 50 LBS. USED \$25.00 MT-300/U HOLDS (1) RT-70 & AM-65(FIGGYBACK) SIZE:8½x13x3½; WT: 25 LBS. USED \$22.00 MT-327/U holds one RT-66-67-68, one R-106-105-110, one PP-109-110; 32 lbs sh. Unused, \$25

RECEIVER-TRANSMITTER

RT-68/GRC TRANSCEIVER, 38-54.9 Mhz FM continously tun-able or 100 Khz-step channels or two preset channels.
Receives and transmits both voice and 1600 Hz ringing FM; range 10-15 miles. Re-ceiver circuit has variable



ceiver circuit has variable
lst IF 4.45-5.45 Mhz and
fixed 1.4 Mhz 2nd IF; also squelch and 600
chm audio output. Transmitter uses crystalcontrolled oscillator and oscillator power
amp; power output 2 watts (LO) or 15 W (HI).
Also meter to monitor mmitter filaments and
90 V input. Requires external power supply
available separately. With tubes 4/1U4, 2E24,
2/1A3, 2/1I4, 4/1R5, 2/1AF4, 1S5, 4/324, 3A4,
5/3A5, 2/3B4, 6AK5. 9x1Sx111, 42 1bs. \$55.00
RT-66/CRC, as above but 20-27.9 Mhz, \$27.50
RT-67/CRC, * 27-38.9 Mhz, \$35.00

POWER SUPPLIES



PP-1175A/SR TRANSISTORIZED 115 VAC 60 HZ POWER SUPPLY provides voltages to operate provides voltages to operate a RT-66, -67, or -68 plus a R-108,-109, or -110 receiver. Includes power connector, auxillary receiver connector, & manual. 9x72x14, 40 lbs sh wt. Unused, original-boxed \$85.

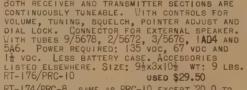


PP-112/GRC 24 VDC POWER SUPPLY for RT-66-67-68 transceivers: provides all voltages from 24 VDC 6.5 amp input. 72x9x13, 39 lbs sh. Used \$25. Unused, \$35. PP-109/GRC SUPPLY, as above but 12 VDC 13 A input; used \$34.50

CX-1209 or CX-1210 CABLES f/RT-66-7-8 \$10 ea.

PRC-10 RECEIVER-XMITTER

RT-176/PRC-10 RADIO RECEIVER-RT-176/PRC-10 RADIO RECEIVERTRANSMITTER; PORTABLE UNIT
OPERATING FROM 38 TO 54.9
MHZ FM VOICE COMMUNICATIONS.
THE RECEIVER SECTION HAS AN
IF OF 4.3 MHZ AND AN AUDIO
OUTPUT IMPED. OF 600 OHMS.
TRANSMITTER OUTPUT IS 0.9
WATTS WITH A NORMAL RANGE
OF ABOUT FIVE MILES. MICROPHONE INPUT IMPED. 150 OHMS.
BOTH RECEIVER AND TRANSMITTER SECTIONS ARE
CONTINUOUSLY TUNEABLE. VITH CONTROLS FOR



RT-174/PRC-8, SAME AS PRC-10 EXCEPT 20.0 TO 27.9 MHz. USED-COMPLETE, NOT CHECKED, \$30

RT-175/PRC-9, SAME AS PRC-10, EXCEPT 27.0 TO 38.9 MHz. USED, COMPLETE.

AM-598 AMPLITTER POWER SUPPLY functions as 24 VDC supply and audio amp for PRC-8-9-10 transceivers which plugs into top. With audio cable and tubes 003 2/12AT7, 2/26E6, 26Z5; 112x112 x102, 38 lbs sh. Unused \$36.00



CY-744/PRC BATTERY CASE f/PRC-8-9-10, \$6.00 AT-272A GOOSENECK antenna base, unused, \$2. AT-272 FLAT RIBBON ANTENNA f/PRC-8-9-10, \$3. AB-129 RUBBER BASE f/AT-271 (PRC-8-9-10) \$3. AB-591 TUBBER BASE f/AT-271 (PRC-8-9-10) \$4. AM-598 SHOCKMOUNT \$5. WM-46 CABLE, 10' \$10. WM-29 MIC W/UG-77, \$5. M-80 MIC W/UG-229 \$10 HANDSETS, H-33 W/UG-77 \$10. H-189 W/UG229 \$12 LS-166/U LOUDSPEAKER Used \$12 W/set purchase CRC/VRC CONNECTORS, specify type and with what equipment used, \$5 each w/set purchase. FLUGS, used: UG-77, metal back \$3. UG-229 \$4. CX-1211 CONN. ASSY. f/RT66-7-8 to PP112, \$6. Connector assy. sold only with set purchase. CY-744/PRC BATTERY CASE f/PRC-8-9-10, \$6.00

PRC-S WALKIE-TALKIE



RT-196/FRC-6 FM TRANSCEIVER, single channel crystal-controlled in the 47 to 55.4 Mhz range. Range: approx. 1 mile depending on terrain and conditions. Handheld unit has push-to-talk switch, volume control; ribbon antenna, carrying strap, and provision for H-33/PT handset. Uses type CR-23 crystal (not included or available). With tubes 6/5678, 3B4, 3/5672, 2/5676, and 2G21. Requires 1.5, 45, and 90 VDC: 15x5x42, 6 1bs sh. Used, \$18.95; MANUAL, \$7.50

CY-853/PRC-6 CASE, space and padding for 42 CY-655/PRC-6 CASE, space and padding for 42 crystals; 62x62x1, 2 lbs. Used, \$3.00

ID-292/PRC-6 CHANNEL ALIGNMENT INDICATOR, plugs into RT-196 and indicates relative level voltages for B+ filament, osc. injection, limiter, discriminator output, and P-A grid. Also P-A current and calibrate adjust. Unit is basic VTVM with 12° sq. FS-500 ua-meter and 5678 tube. Power from set under test. ID-292, unused w/manual, \$22.95

ORC/PRC BATTERY TEST



ME-61/GRC FIELD STRENGTH METER 1.4 TO 24 MHZ IN THREE RANGES. WITH VARIABLE TUNING, SENSITIVITY CONTROL, 12" SQUARE MELTER, PHONE JACK AND ANTENNA. SIZE: 5x5x42 WT: 5 LBS.





RT-70 RECEIVER-TRANSMITTER 47 to 58.4 MHz FM voice COMMUNICATIONS. FEATURES CONTINUOUS TUNING OR TWO PRE-SET CHANNELS AND PUSH-TO-TALK TRANSMISSION. THE

TALK TRANSMISSION. THE RECEIVER CIRCUIT IS THE DUAL CONVERSION TYPE WITH THE 1ST IF IF MHZ AND THE 2ND IF 1.4 MHZ. WITH VARIABLE SQUELCH CONTROL. 600 OHM AUDIO OUTPUT IMPEDANCE. THE TRANSMITTER CIRCUIT HAS A 500 MW OUTPUT AND AN AUDIO AUDIO 150 OHMS. POWER BEAUTION. AUDIO INPUT IMPED. OF 150 OMMS OFOWER REQUIRED: 90 VDC @ 80 MA, 6.3 @ 360 MA AND 6.3 @ 160 MA. WITH TUBES: 5/IU4, 3/IL4, 2/IR5, IS5, IAE4, 4/3Q4, 3A5, AND 3B4.
RELATED ACCESSORY EQUIPMENT LISTED ELSEWHERS Size: 4 x13x8, 22 lbs sh. Unused, \$32.95



AM-65/CRC AUDIO AMPLIFIER, 3-channel audio amp for RT-70 and also used for interphone in other GRC-systems. PP-281-282 or 448

power supply may be plat inside to power RT-70. 4x13x8, lbs sh. Used, \$14.95; Unused, \$22.95 PP-282 SUPPLY, 24 VDC in for AM65/RT70, \$5.

AN/VRC-10 RADIO SET, consists of RT-68, PP-112, MT-299 mount, CX-1211 cable, and manual described separately on this page; 90 lbs sh. Used, \$85.00 * * * * * * * * * * * * * *

UNUSED AN/VRC-10 in wood crate; contains units listed above plus
AB-15 antenna base, MS-117/AB-24 mast section
CW-206 antenna bag, UG-530 RF cable, spare
fuses, hardware, etc. 182 lbs sh. Unused \$116

TECH MANUALS WITH SCHEMATICS FOR:

RT-196/PRC-6...\$7.50

PRC-9A-10A \$7.50 AM-598.....\$3.00

RT-66,67 & 68..\$5.00 PP-109 & 112...\$5.00

RT-70.....\$5.00 AM-65.....\$7.50

AN/VRC 13-15 OR AN/VRC 16-18, CONTAIN INFO & SCHEMATICS ON RT-66,67,68, R-108,169,110,PP-109,112, var. MTG. CONTROL BOX E8. \$7.50



and late arrival SHUFFER #10-84 Odds & ends

Fair Radio Sales Co.

419/223-2196 419/227-6573 1016 E. Eureka St. P.O. Box 1105 ima, Ohio 45802

TABLE DATE OF THE DESCRIPTION OF THE

G133 HF RECEIVER



2/6136, 6CD6, 5670, 6BE5, and 6AK6. Requires 115/230 VAC 50-400 Hz; also 24 VDC 168 ma for switch. Input impedance 50 ohms. Output: 4 or and extra electronic filtering. Crystal check 600 ohms. With tubes 5/6EA8, 3/6BA6, 2/12AX7 from 485-515 Khz. Controls for CW-LSB-USB-AN range, jack for 14-600 Khz IF tuner, AM BFO, 600 ohms. Matching phone patch imped.: 500-BFO dial has 500 increments for varying BFO points every 100 Khz. 500 Khz final IF. AM packaged by LTV-Temco for milairborne use with extended lower frequency rejection tuning, and RF-+10DBM-ODBM meter Used, reparable, 3825,00, \$600.00 AM BFO only. 62x182x13; 40 lbs sh.

MACHINE 20 11000 10 - 1000

R-395/PRD-1 RADIO DIRECTION FINDER . 100 Khz to 30 Mbz AM-CW-ICW oelibrator for bands 1-2-3 1n seven bands; FM over 12.5-30 Mhz. 34 Khz bandwidth. 100 Khz crystal



PRR- RECEIVER

AN/PRR-9 FM HEIMET RECEIVER, extremely lightweight single channel radio in the 47-57 Mhz FM nel radio in the 47-57 Mhz FM range; 5 mw nominal power output. Uses CR-81 type crystal (not available); 455 Khz IF. Requires 5 V 25 ma originally supplied by BA-505 battery (not available). With AS-1998 antenna and H-264 headset. 775g xls, 2 lbs. Used \$38. Less AS-1998/H-264 \$25. OPERATOR'S MANUAL for FRR-9, \$7.50

ID-1189/PR CHANNEL ALIGNMENT INDICATOR, designed to test AN/PRR-9 and AN/PRT-4 trans-mitter. Has 47-57 Mhz signal generator; checks both sets' batteries. Instructions, probes, and transit case in-cluded. 12x112x6, 15 lbs sh. Used, \$45.00



TO IS MHE TRANSCEIVERS

RT-77/GRC-9 BACKPACK TRANS-CEIVER, covers 2-12 Mhz AM
CW in bands 2-3.6, 3.6-6.6,
and 6.6-12 Mhz; Hi-LO outputs 7/1 watt (AM), 15/5 W
(CW). Receiver section has
456 Khz IF and calibration
points every 200 Khz.
Transmitter can be continucusly tuned or two preset
channels; uses 2E22 tube
in power amp. Set also includes tubes 2/1L4, 5/1R5,
1S5, 3/5A4, 304; requires
580 vdc 100 ma, 6.6 vdc 2 amp, 120 vdc 45 ma,
1.5 vdc 500 ma, 6.9 vdc 575 ma. RT-77 was
used in field and vehicular installations
with a number of power supplies designed for RT-77/GRC-9 BACKPACK TRANS



with a number of power supplies designed for it such as CN-58 handorank generator available below, PE-237 6-12-24 VDC vibrator supply, DY-88 (12 VDC) & DY-105 (24 VDC) dynamotor supplies, PP-327 115 VAC supply. 16x13x8, 35 lbs sh. Used, \$39.95; MANUAL, \$8.50

CN-58 HANDCRANK GENERATOR, with legs, seat, two cranks; powers RT-77 at reduced outputs 3.6 W (AM), 10 W (CW). 39 lbs sh. Used \$35.

TO SA WHZ RECEIVER



R-110 RECEIVER 38 TO 54 MHZ FM R-ITO RECEIVER 38 TO 54 MHZ FM CONTINUOISLY TUNEABLE, VARIABL SQUELCH AND AUDIO, OUTPUT IMPEDANCE 600 OHMS. 4.3 MHZ. I.F. WITH TUBES 3/IU4, 2/IL4, IA3, 2/3A5, IS5, 2/3C4, 2/6AK5 & OB2. VOLTAGES REQ. 135 VDC @ 70 MA. AND 6.3 VDC 2 AMPS.

SIZE: 9X|3X72; WT: 32 LBS. USED \$35.95

- 101

RECEIVER, SAME AS R-110 ABOVE EXCEPT 20-28 MHZ. USED \$21.95

N-109

RECEIVER, SAME AS R-110 ABOVE EXCEPT 27-39 MHZ. USED \$27.9 USED \$27.95

PP-282 POWER SUPPLY 24 VDC FOR R-108-109-110 RECEIVERS. MOUNTS INSIDE REC. USED \$5.95

SHOCKED-MOUNTINGS FOR GRC SERIES RADIO SET ALL HAVE APPROPRIATE

ALL HAVE APPROPRIATE CABLES & CONNECTORS CONNECTORS THAT GO FROM THE MTG. TO THE SET & BATTERY, BUT THEY DO NOT HAVE JUMPER CABLE UNIT-UNIT. MT-297/U HOLDS R/T, PS, REC., RF-70, AM-65, C434 SIZE: 33½x13½x4½; WT: 75, LBS. USED \$25.00 MT-298/U HOLDS TWO (2) R/T & TWO(2) PS. SIZE:37½x13½x4½; WT: 85 LBS. USED \$20.00 MT-299/U HOLDS ONE RT-66,67, ore 68 & ONE PS SIZE:18½x13½x4½; WT: 50 LBS. USED \$25.00 MT-300/U HOLDS (1) RT-70 & AM-65(PIGGYBACK) SIZE:8½x13x3½; WT: 25 LBS. USED \$22.00 MT-327/U holds one RT-66-67-68 one R108-108 MT-327/U holds one RT-66-67-68, one R-108-109-110, one PF-109-110; 32 lbs sh. Unused, \$25

RECEIVER-TRANSMITTER

RT-68/GRC TRANSCEIVER, 38-54.9 Mhz FM continously tunable or 100 Khz-step chan-nels or two preset channels. Receives and transmits both voice and 1600 Hz ringing



Also meter to monitor mmitter filaments and 90 V input. Requires external power supply available separately. With tubes 4/1U4, 2E24, 2/1A3, 2/1L4, 4/1R5, 2/1A84, 1S5, 4/3Q4, 3A4, 3/3A5, 2/3B4, 6AK5. 9x13x111, 42 lbs. \$55.00 RT-66/GRC, as above but 20-27.9 Mhz, \$27.50 RT-67/GRC, * 27-38.9 Mhz, \$35.00

POWER SUPPLIES



PP-1175A/SR TRANSISTORIZED 115 VAC 60 HZ POWER SUPPLY 115 VaC 60 HZ POWER SUPPLY, provides voltages to eperate a RT-66, -67, or -68 plus a R-108,-109, or -110 receiver. Includes power connector, auxiliary receiver connector, & manual. 9x72x14, 40 lbs sh wt. Unused, original-boxed \$85.



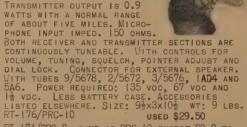
PP-112/GRC 24 VDC POWER SUPPLY for RT-66-67-68 transceivers; provides all voltages from 24 VDC 6.5 amp input. 72x9x13, 39 lbs sh. Used \$25. Unused, \$35.

PP-109/GRC SUPPLY, as above but 12 VDC 13 A input; used \$34.50

CX-1209 or CX-1210 CABLES f/RT-66-7-8 \$10 ea.

PRC-10 RECEIVER-XMITTER

RT-176/PRC-10 RADIO RECEIVER-RI-170/PRC-10 RADIO RECEIVER TRANSMITTER; PORTABLE UNIT OPERATING FROM 38 TO 54.9 MHZ FM VOICE COMMUNICATIONS. THE RECEIVER SECTION HAS AN IF OF 4.3 MHZ AND AN AUDIO OUTPUT IMPED. OF 600 OHMS. TRANSMITTER OUTPUT IS 0.9



RT-174/PRC-8, SAME AS PRC-10 EXCEPT 20.0 TO 27.9 MHz. USED-COMPLETE, NOT CHECKED, \$30

RT-175/PRC-9, same as PRC-10, except 27.0 to 38.9 MHz. Used, complete.

AM-598 AMPLIFIER POWER SUPPLY functions as 24 VDC supply and audio amp for PRC-8-9-10 trans ceivers which plugs into top. With audio cable and tubes 003 2/12AT7, 2/26E6, 26Z5; 112x112 x102, 38 lbs sh. Unused \$36.00



CX-2031 BATTERY CABLE for AM-598, \$8.00 ea.

ACCESSORIES

CY-744/PRC BATTERY CASE f/PRC-8-9-10, \$6.00 AT-272A MOOSENECK antenna base, unused, \$2. AT-272 FLAT RIBBON ANTENNA f/PRC-8-9-10, \$3. AB-129 RUBBER BASE f/AT-271 (PRC-8-9-10) \$3. AB-591 TUBBER BASE f/AT-271 (PRC-8-9-10) \$4. AM-598 SHOCKMOUNT \$5. WM-46 CABLE, 10° \$10. WM-29 MIC W/UG-229 \$10 HANDSETS, H-33 W/UG-77 \$10. H-189 W/UG-229 \$12 LS-166/U LOUDSPEAKER Used \$12 W/set purchase GRC/VRC CONNECTORS, specify type and with what equipment used, \$5 each w/set purchase. FIUGS, used: UG-77, metal back \$3. UG-229 \$4. CX-1211 CONN. ASSY. f/RT66-7-8 to PF112, \$6. Connector assy. sold only with set purchase. CY-744/PRC BATTERY CASE f/PRC-8-9-10, \$6.00

PRC-S WALKIE-TALKIE



RT-196/PRC-6 FM TRANSCEIVER, single channel crystal-controlled in the 47 to 55.4 Mhz range. Range: approx.
1 mile depending on terrain and 1 mile depending on terrain and conditions. Handheld unit has push-to-talk switch, volume control, ribbon antenna, carrying strap, and provision for H-33/PT handset. Uses type CR-23 crystal (not included or available). With tubes 6/5678, 3B4, 3/5672, 2/5676, and 2G21. Requires 1.5, 45, and 90 VDC. 15x5x42, 6 lbs sh. Used, \$18.95; MANUAL, \$7.50 PRC-6 CASE, space and padding for 42

CY-653/PRC-6 CASE, space and padding for 42 orystals; 62x62x1, 2 lbs. Used, \$3.00 ID-292/PRC-6 CHANNEL ALIGNMENT INDICATOR, ID-292/FRC-6 CHANNEL ALIGNMENT INDICATOR, plugs into RT-196 and indicates relative level voltages for B+ filament, osc. injection, limiter, discriminator output, and P-A grid. Also P-A current and calibrate adjust. Unit is basic VTVM with 14 sq. FS-500 us-meter and 5678 tube. Power from set under test. ID-292, unused w/manual,

ORC/PRC BATTERY TEST



ME-61/GRC FIELD STRENGTH METER 1.4 TO 24 MHZ IN THREE RANGES. WITH VARIABLE TUNING, SENSITIVITY CONTROL, I& SQUARE METER, PHONE JACK AND ANTENNA. SIZE: 5x5x42 WT: 5 LBS. UNUSED, \$24.95



RT-70 RECEIVER-TRANSMITTER 47 TO 58.4 MHZ FM VOICE COMMUNICATIONS. FEATURES CONTINUOUS TUNING OR TWO PRE-SET CHANNELS AND PUSH-TO TALK TRANSMISSION. T THE

TALK TRANSMISSION. THE RECEIVER CIRCUIT IS THE DUAL CONVERSION

TYPE WITH THE IST IF IF MHZ AND THE 2ND IF I.4 MHZ. WITH VARIABLE SQUELCH CONTROL. 600 OHM AUDIO OUTPUT IMPEDANCE. THE TRANSMITTER CIRCUIT HAS A 500 MW OUTPUT AND AN AUDIO INPUT IMPED. OF 150 OHMS. POWER REQUIRED: 90 VDC @ 80 MA, 6.3 @ 360 MA AND 6.3 @ 160 MA. WITH TUBES: 6/1U4, 3/1L4, 2/1R5, 1S5, 1AE4, 4/3Q4, 3A5, AND 3B4. RELATED ACCESSORY EQUIPMENT LISTED ELSEWHERE. Size: 42x13x8, 22 1bs sh. Ummsed. 322.95 Size: 4 x13x8, 22 lbs sh. Unused, \$32.95



AM-65/GRC AUDIO AMPLIFIER, 3-channel audio amp for RT-70 and also used for

RT-70 and also used for interphone in other GRC-systems. PP-281-282 or 448 power supply may be placed inside to power RT-70. 42x13x8, 17 lbs sh. Used, \$14.95; Unused, \$22.95 PP-282 SUPPLY, 24 VDC in for AM65/RT70, \$5.

UNUSED AN/VRC-10 in wood orate; contains units listed above plus
AB-15 antenna base, MS-117/AB-24 mast section
CW-206 antenna bag, UG-530 RF cable, spare
fuses, hardware, etc. 182 lbs sh. Unused \$116

TIGOS, NATIONARY, etc. 182 168 Sh. Unused \$116
TECH MANUALS WITH SCHEMATICS FOR:
RT-196/PRC-6...\$7.50
PRC-9A-10A
\$7.50
AM-598......\$3.00
RT-66,67 & 68...\$5.00
PP-109 & 112...\$5.00
RT-70......\$5.00
AM-65.....\$7.50
AN/VRC 13-15 OR AN/VRC 16-18, CONTAIN INFO & SCHEMATICS ON RT-66,67,68, R-108,109,110,PP-109,112, VAR. MTG. CONTROL BOX ES. \$7.50



STUFFER #10-84

Odds & ends and late arrival items; prices F.O.B. Lima, Oh good thru 2-85.



Fair Radio Sales Co.

P.O. Box 1105 - - 1016 E. Eureka St. 419/223-2196 Lima, Ohio 45802 419/227-6573

WIRELESS AMPLIFIER



WPT-2 TRANSISTORIZED WIRE-LESS AMPLIFIER BY FANON;

LESS AMPLIFIER BY FANON;
DESIGNED FOR USE WITH
CALL-ORIGINATOR BOX (NOT
AVAILABLE) AS A PAGING/INTERCOM SYSTEM WITHOUT
LINES. 4 WATTS PEAK. OPERATES FROM 115 VAC 60 HZ AND MUST BE IN SAME
AC CIRCUIT AS THE CALLING BOX. USABLE WITH
TWO 8 OHM SPEAKERS OR THREE OR FOUR 45 OHM
MAY BE MOUNTED INDOORS OR DUT. SIZE-ONES. MAY BE MOUNTED INDOORS OR OUT. SIZE: 42x82x3; SH WT: 5 LBS. UNUSED, W/+NFO, \$7.95

WP-1. like WPT-2 but no talk-back feature, \$5.95

SEIKI PRINTERS

SHINSHU SEIKI-DIGITAL EP-101 SHINSHU SEIKI DIGITAL PRINTER; 21 COLUMN PRINTER, PRINTS CHARACTERS 0 THRU 9, FRINTS CHARACTERS 0 THRU 9, OVERFLOW, PROGRAM, PLUS OTHER SPECIALIZED SYMBOLS.
USES 3½" WIDE PAPER; PRINTS 2.8 LINES/SECOND. PARALLEL DATA ENTRY. MOTOR REQUIRES 17 VDC (±3 VDC). SIZE: 4x6½X5-3/8; SHPG. WT: 7 LBS. USED, REMOVED FROM EQUIPMENT. GOOD CONDITION, \$15.



EP-101, AS-IS f/parts \$7.



35 MM RECORDING CAMERA MAGA-35 MM RECORDING CAMERA MAGAZINE TYPE C-7, DESIGNED FOR AIRCRAFT CAMERA BUT CAN BE ADAPTED TO OTHER EQUIPMENT.
UNIT ACCEPTS 35 MM FILM ON 2-5/8" DIA. REELS; HAS SPROCKETS, GUIDES, AND MARKED THREAD PATTERN. I" DIA. DRIVE ASSEMBLY PARALLEL TO PICTURE PLANE. WITH COVERS

FOR FILM COMPARTMENT AND MOUNTING FACE. 3-7/8x51x51; 8 LBS. SH. USED, \$10.00

ACCURAY SWITCH DEVICE



ACCURAY DICHTAL SWITCH,
has access key lock that
actuates a SPDT switch
connected in circuit to
a lighted push button
"enter" switch. Unit also has four section decimal-coded thumb switch--each section numbered
0 thru 9--and 15" input/output cable with
connector. In 8x4x5 steel case with flange
mount. 8 lbs shwt. #ACCU-DS, used, 312-325
\$8.



ANTENNA HORN

AT-903/G ANTENNA FEED HORN 1/ 600-1850 Mhz range. 50 ohms impedance; type C connection. Has locking ll-position elevation adjust. Fits 2;" dia. mast. Aluminum. 35"Lx26"Hx21" 40 lbs. Shipped via truck only. Used,

AT903 no elevate mount \$25

AIRCRAFT SIGHT



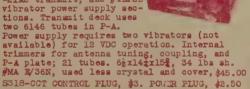
OFTICAL GUN SIGHT p/o AFG-59; has 3-5/8* dia convex lens, 4* dia polarizing filtrer, and two coated view glasses--one 42* dia, the other 4* dia. Polarizer adjusts on scale marked VEL 25-50-100-200; 0-280 vernier scale for adjusting plexiglass viewing screen. Also includes 3 push buttons, transformer marked "47 WV." OPTICAL GUN SIGHT p/o APG-59;

edges; no further info. looks like item for the collector or experimenter. 8x7; x7, 15 lbs sh wt. #0PS-1900, used, \$28.95

#OPS-1200, AS-IS, some parts missing, \$15.00

PROGRESS-LINE

GE PROGRESS-LINE 50 WATT MOBILE TRANSCEIVER, single channel crystal-controlled in the 144-174 FM Mhz bend Has #4ER25C2 receive, #4ET-21A2 transmit, and #4EP2B vibrator power supply sections. Transmit deck uses two 6146 tubes in P-A





Progress-Line sets; with push-to-talk mic. squelch, volume control, and coil cord.
5 lbs sh wt; used, \$13.
Less mic, \$4.95

PROG-LINE SET, MT-36N transceiver, control with mic, speaker, cables, \$55.

R-1/ARR-1 HOMING RECEIVER ADAPTER, converts 234-258 Mhz input signal to 540-830 Khz output. Input and output im-pedances: 50 ohms. W/ tuning dial, ant. trim, and 4/954 tubes. Unit

and 4/954 tubes. Unit has conversion possibilities. Req 12/24 VDC 280/140 ma, 220 VDC 10 ma. 31x4x121, 6 lbs. Damaged RF capacitor, used "as-is", 7.35



BC-1206C 200-400 KHZ RECEIVER BC-1206C 200-400 KHZ RECEIVER with volume control and headphone jack; 135 Khz IF. Requires 24 VDC; uses tubes 2/14H7, 14A7, 14R7, 28D7. Units are unused-as-is, may have age deterioration. 4214161, 8 lbs. Less tubes but 1447 \$7.

O C-SO MAZ BOB RECEIVER



G133 HF RECEIVER, 0.2 to 30 Mhz SSB. AM, CW in thirty bands; continuous tuning in each band Set is a Collins 51S1 receiver re-

airborne use with extended lower frequency range, jack for 14-600 Khz LF tuner, AM BFO, and extra electronic filtering. Crystal chechoints every 100 Khz. 500 Khz final IF. AM BFO dial has 500 increments for varying BFO from 485-515 Khz. Controls for CW-LSB-USB-AM, rejection tuning, and RF-+10DEM-ODEM meter switch. Input impedance 50 ohms. Output: 4 or 600 ohms. Watching phone patch imped.: 500-600 ohms. With tubes 5/6EA8, 3/6BA6, 2/12AX7, 2/6136, 6CD6, 5670, 6BF5, and 6AK6. Requires 115/230 VAC 50-400 Hz; also 24 VDC 168 ma for AM BFO only. 6/x18/x13; 40 lbs sh. Used, reparable, 3025-62 \$4,000.00. Used, reparable, \$825,000, \$600.00

PRD-I DIRECTION FINDER

R-395/PRD-1 RADIO DIRECTION FINDER
100 Khz to 30 Mhz AM-CW-ICW
in seven bands; FM over
12.5-30 Mhz. 34 Khz band-12.5-50 Mmz. 34 Khz bandwidth. 100 Khz crystal calibrator for bands 1-2-3 (100-1200 Khz), 1300 Khz bands 4-5 (1.14-5.8 Mhz), and 4000 Khz bands 6-7 (5.5-30 Mhz). Has two tuned RF amplifriers using two 6AK5's. Also 7/1U4, 1R5, 2/1U5, 6C4, 3Q4, and 3A5. Designed to be used with diamond shaped AS-536 and AT-301 antenna which mounts on receiver's top. Requires 1.5, 6.3, -6, and 90 VDC. 18\(^2\)x13x13\(^2\); 64 lbs net, 75 lbs sh wt. Used, reparable, \$105.00 MANUAL, partial repro, \$12. Schematic only \$3 AS-536 & AT-301 LOOP ANTENNA.

AS-536 & AT-301 LOOP ANTENNA.



DY-79/PRD-1 DYNAMOTOR POWER-SUPPLY, fits and pluge into bottom of R-395 and provides all the voltages for the receiver from 24 VDC 7 amp input 10x14x17, 38 lbs sh. Used,

4N/PRD-1 DIRECTION FINDER SYSTEM

R-518 RECEIVER



R-518/FRR-27 RECE !-

R-518/FRR-27 RECEIVER, SINGLE-CHANNEL CRYSTAL-CONTROLLED RECEPTION OF AM OR TONE SIGNALS IN THE DOUBLE CONVERSION DESIGN WITH IF'S OF 23 MMZ AND 3 MHZ. AUDIO OUTPUT: 1.5 WATTS INTO 200-600 OHMS, 15 MW PHONE. ANTENNA INPUT: 50 OHMS UNBALANCED. WITH SQUELCH AND TUBES 3/12AT7, 2/6AU6, 5654 2/6AV6, & 6005. POWER REQUIRED: 115 VAC 50-60 Hz. SIZE: 192x6x182; 45 LBS. USED, \$45.00

750 W TRANSMITTER

TMC GPT-750 SSB TRANSMITTER, 2 to Mhz continuously tuned. Prodes 750 watts AM, 750 W PEP-SSB 32 Mhz continuously taned. The vides 750 watts AM, 750 W PEP-SSB and 1000 W CW and FSK. Same as AN/URT-17. Requires 115/230 VAC 50-60 Hz. 47x34x27, 750 lbs sh. Used, w/durmy panel-no exciter, \$375.



DYNA-VISION ACCESSORY UNIT#337 COMBINATION TACH-VOLTMETER. Tach ranges 0-1000 and 0-5000 R.P.M. Volt range 0-18 vdc. USED FOR CHECKING R.P.M. AND LOW VOLTAGE CIRCUIT OF AUTO ENGINES, ALSO PROVISIONS FOR PLUGING IN TIMING LIGHT. METER IS 42" CHROME AND SATIN FINISH WITH 500 MICROAMP. MOVE

OPERATES FROM 6/12 VDC WITH TUBES 1/0A-2 & 1/2D21. SIZE:13x5x5; WT: 8 LBS. PRICE: \$19.95

\$9.95



MX-00:/U FLWONLIBHT from two "D" cell bat-teries (not included). Has clear diffuser, red signal, and white opaque spare lenses which store in handle; metal belt clip, O.D. green plastic. 82"Lx2" dia. Unused, \$5.75 CHASSIS -- INCLUSURE ALL INUM ENCLOSURE w/tel and bottom sections. 0/A 14 L x 72 W x 2-3/8 H.

HORN. VDC for Bell System: volume adjust. Steel construct: with enclosure. 4×4×1.3, 2 1bs. #KS12037-L2, NEW,

\$6.95

Sparton Auto Horn, 12 VDC replacement; 2 lbs. #SA-DEM-12V, NEW, \$7.95

BOONTON 170A Q METER, 30-200 MHz: used-reparable w/ partial book, \$125.00

DM-34 Dynamotor for BC-603/683; 12 VDC operation; Unused, \$12.00

DM-35 Dynamotor for BC-604/684; 12 VDC operation: Unused. \$20.00

JOHNSON Desk Mic, push-to-talk bar; wire for 600 50K ohms. W/coil cord you install. NEW \$12.95



SCR-508 installati

UPS 8.00 BC-1362 kit; includer phone plosion-proof phone with H-22 handset, 3 const. CO-213 cable, BC-13/ conte switch, 125 p mote swite ware kit,

14'1 x 'g'w x 2-0/8'H.
Top has no cuts. Bottom
has cutouts on one end
for fuse, AC power, and
control. Use as-is or use top and bottom as
serarate chassis. #RCU-MI2, new, \$5.

S GIGNALS TO IDENTIFY SIGAND MODULATION. CAN BE
UNED TO DETERMINE CORRECT
DEVIATION RATIO F FM TRANSMITTERS. USABLE
UNED TO DETERMINE CORRECT
DEVIATION RATIO OF FM TRANSMITTERS. USABLE
UNED 1000 MHz, DISPLAYS UPTO 1000 KHZ SPECTRUM WIDTH. CENTER FREQ: 5 MHz. BANDPASS: 4.5
FM SOSILLATOR MEAN FREG; 6.5 MHz. MNDT IMMFED: 50 CHMS. DIRECT SENSITIVITY: 100 UV FOR
\$ FED: 50 CHMS. DIRECT SENSITIVITY: 100 UV FOR
\$ FED: 50 CHMS. DIRECT SENSITIVITY: 100 UV FOR
\$ WE SELECTION ON CRI © 5 MHz. SWW-TOOTHED
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SET

450K V at (low) or 40 0.1 to 1 V sh. Gov't 1

O

HIGH ER — RECEIVE BAND BAND



R-394/U RECEIVER, 152-172 Mhz FM single channel crystal-con-trolled. Dual conversion unit has first IF 7.8 Mhz and 455 Khz ascond IF; also squelch and mut-ing circuits. 8 ohms output im-pedance. Set features modular construction with plug-in units lst RF amp, local oscillator, lst IF amp, 2nd IF and disoriminator, and audio/squelch. 455 Khz selective filter is wired

in. Also has compartment for modular power supply which is listed elsewhere on this page. Includes tubes 14/5678, 4/1AD4, 5672, 5840, 5783, and 6AK6. 82x52x142

22 1bs sh. Used \$10.95; Gov't recond, \$19.95 R-257 RECEIVER, same as R-394 except covers 25 to 50 Mhz RM, used, \$12.95



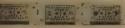
T-278/U TRANSMITTER F.M.
152 TO 174 MC APPROX. 30
WATTS, CRYSTAL CONTROL ON
ANY TWO (2) PRESET FREQ.
PHASE SHIFT MODUALTION 15
KC DEVIATION, CR-27/U CRY
STAL UNIT FREQ. RANGE
4750-5437.5 KC. MULTIPLIED
32 TIMES. WITH TUBES 2/
384,3/2E24,4/5678,2/5672
AND 2/1AD4.

VOLTAGES REQUIRED AS SHOWN WITH DY-93 DYNAMO TOR ELSEWHERE ON THIS PAGE. USED \$14.95 SIZE:82x42x142; WT: 12 LBS. UNUSED \$19.95 AN/VRC-19 6 VDC RADIO SET, includes R-394, T-278, DY-100, CY-938, C-847; 100 lbs. \$48.



VIBRATOR POWER SUPPLIES for R-394 and R-257 receivers; fits inside receivers; 10 lb PP-867, 24 VDC input, \$4.95 PP-868, 12 VDC input, \$5.95 PP-846, 115 VAC 60 Hz input, \$29.95

DY-93 DYNAMOTOR POWER SUPPLY for use with T-208-278-417
transmitters. Input: 12 VDC
Output: 380 VDC 180 ma, 225 VDC 45
VDC 5 ma. 8½x7x14, 29 lbs. Used \$9.95



CHASSIS CONNECTORS to fit R-594-257, T-208-278-416-417, DY-93-98
Specify for receiver (P252), transmitter (P401), or power supply (P1203), \$2.50 each.



CY-938 EQUIPMENT CABINET houses receiver R-257 or R-394, transmitter T-208 or T-278, power supply DY-93, -98, or -100. Aluminum; 17½x114x25, 40 lbs sh wt. Used \$9.95

PROGRESS-LINE

GE PROGRESS-LINE 50 WATT MOBILE TRANSCEIVER, single channel crystal-controlled in the 144-174 FM Mhz band Has #4ER25C2 receive, #4ET-21A2 transmit, and #4EP2B vibrator power supply sections. Transmit deck uses

tions. Transmit deck uses two 6146 tubes in P-A.
Power supply requires two vibrators (not available) for 12 VDC operation. Internal trimmers for antenna tuning, coupling, and P-A plate; 21 tubes. 62x142x152, 34 lbs sh.
#MA R/36N, used less crystal and cover, \$45.00 S318-CCT CONTROL PLUG, \$3. POWER PLUG, \$2.50



GE CONTROL HEAD for Progress-Line sets; with push-to-talk mic. with push-to-tark mio, squelch, volume control, and coil cord. 5 lbs sh wt; used, \$13. Less mio, \$4.95

MOTOROLA CONTROL HEADS, 1950's styles; simi-lar features as above; used with mic, \$11.95

MOTOROLA TRANSCEIVER

MOTOROLA FM MOBILE TRANSCEIVER, transmits in 144-174 Mhz range, receives between 450-470 Mnz. #TD6050AB transmitter section has output of 25 watts min. output of 25 watts min. (144-167 Mhz), 20 W min. (167-174 Mhz), 20 W min. (167-174 Mhz) using single crystal-controlled channel. Crystal multiplication 24 times; 50 ohm output impedance. Has nine tubes including 6146 in power amp. #XRE1000-AH receiver has dual squelch "Private Line" or separate tone-controlled and carrier or separate tone-controlled and carrier squelch circuits. Two crystal-controlled channels; 455 Khz final I.F. Audio output 2 watts into 3.2 chms. With 14 tubes. #XPN-6003B transistorized power supply requires 12 VDC input to supply voltages for transmitter and receiver. Crystals and accessories net available. 6x10x191, 28 lbs. Used less 6146 tube, \$18.95 each. Schematic set, \$5.00



C-847 RADIO CONTROL BOX; USED TO CONTROL THE SYSTEM, HAS HEAVY ALNICO MAGNET 4" SPEAKER FOR MONITORING REC. CONTROLS FOR SQUELCH, VOLUME ON/OFF SW. PILOT LIGHTS AND RECEPTACLE FOR H-33 HANDSET WHICH HAS UG-77

SIZE:92x52x32; WT: 6 LBS. Unused, \$9.95

C-645 RADIO CONTROL

C-845/U RADIO CONTROL, used with R-394-257 re-ceivers and T-208-278transmitters. Contains three tube micro-phone amp with line

the signal to be adjusted to modulate the transmitter.

Also has heavy duty 4" speaker for monitoring a receiver and tone generator for signaling purposes. Controls for intercom, mic level, and speaker volume and UG-77 plug. 600 ohm input impedance. Unit includes PP-846 AC power supply which mounts inside. Requires 115/230 VAC 50-60 Hz. 82x132x132; 40 lbs sh wt. Used, \$44.50; schematic, \$2.00

400 W AM TRANSMITTER



T-368/URT TRANSMITTER,
1.5 to 20 Mhz @ 450
watts CW, 400 watts AM.
Uses master oscillator,
frequency multiplier,
intermediate power amp,
and final power amp.
Also 4-400A tube in the
P-A, two 4-125's in the
modulator, 1500 pf and
300 pf 10 KV vacuum variable capacitors.in P-A.
: 3-5 volts FSK. 30 V max T-368/URT TRANSMITTER.

able capacitors in P-A. Input signal levels: 3-5 volts FSK, 30 V max external excitation. Input impedance: 56 ohms FSK, 1000 ohms external. Requires 115 VAC 50-60 Hz 1570 W (CW) or 2200 W (AM). 412x32 x31, 650 lbs net. Sh wt: 940 lbs in wood crate as received from government. Used-good condition but not checked, \$495.00 Maintenance manual, partial repro, \$15.00

ANTIQUE'S TRANSMITTER

RCA RT-8003 LF TELEGRAPH RCA RT-5005 if TELEGRAPH TRANSMITTER, "antique" unit transmits 700 Hz tone over 355-500 Khz; 30 watts output. Designed to operate from 1500 VCT 100 operate from 1500 VCT 100 ma 350 Hz power input. Key-ing circuit is in-line with the power input so that key-ing makes or breaks the power circuit. The four #10 tubes are then modulated by

the line frequency and produce the 700 Hz tone. Antenna coupling set by moving plug into any one of six coil tap jacks. Has two National Velvet Vernier dials, two variometers, and 0-5 RF ammeter. 21x16x11, 30 lbs sh wt. Government-reconditioned, \$79.50

Original 350 HZ POWER TRANSFORMER for ET8003; primary 115 VAC 350 Hz, secondary 1500 VCT 100 ma. 10 lbs sh wt; unused, \$10.00

MONITOR



ID-642/FSA RADIO FREQUENCY MONITOR, USES DIRECTIONAL COUPLER WITH IN-21B

COUPLER WITH IN-21B DIODE TO MONITOR RF VOLTAGE LEVEL. DC VOLTAGE IS AMPLIFIED TO TRIGGER A 24 VDC RELAY (6.5 MA 4PST) OVER A POWER SCALE OF 25-200. UNIT WAS PROBABLY CALIBRATED INTO. A STANDARD LOAD. REQUIRES HN CONNECTORS. WITH TUBES: 2/0A2, 5751, 5670 6X4. AND TJ791K01 CURRENT REGULATOR. POWER REQUIRED: 115 VAC 60 Hz. Size: 11x19x102; SHPG. WT: 20 LBS. UNUSED, W/SCHEMATIC, 37.95

BC-604 F.M. TRANSMITTER 30 W.
FREQ. RANGE 20-27.9 MBZ. 10
PRE-SET CRYSTAL CONTROL CHANNELS ARE POSSIBLE WITH THE
PROPER CRYSTALS. WITH TUBES
4/1619 & 1/1624. VOLTAGE REQ.
12 OR 24 VDC & 625VDC @ 225MA. SIZE: 182x1 | 2x
102; 60 LBS. PRICE: Unused, \$25.00





CV-278 FREQUENCY SHIFT CONVERTER designed for RTTY operation of R-392 receiver and T-195 xmitter; usable with any raceiver having 450-500 Khz IF. Signal Input and Discriminator meters; 28 VDC 2 & required. 9272x13%; 25 lbs sh. Used \$40. Power connect \$6 w/set.

MOBILE TRANSCEIVER



AN/VRC-51 FM MOBILE TRANS-CEIVER, single channel crystal controlled in 132-152 Mhz range; 30 watt

output w/6146 in power amp; 22 other tubes. Internal trimers for antenna tuning, coupling, and PA plate. Includes C-3691 solid-state power supply and control which has speaker, volume, and squelch; also interconnect cable. Requires 12 or 24 VDC; Comoo mfg. 12½x6½x9, 27 lbs sh. Used, \$59.50; Mie, \$5.00 w/purchase.

PP-638/U POWER SUPPLY USED WITH AM-494 & AM-495 POWER AMPLIFIERS. INPUT 115/230 volts 50/60 cycle, output 1100 vdc 3320 ma, 230 vdc 60 ma and 6.3 vac 65.2 a. 2½" RUGGEDIZED METERS 50 MADC 500 MADC AND 1.5 KVDC ALSO BLOWER FOR COOLING. UPPER COMPARTMENT SIZE 15WX 9½ H x 82 D.

SIZE: 31½ x 20½ x 24½; WT: 150 LBS.

PRICE: RE-NEW \$79.50





R-901/CR RECEIVER, 0.54 to 20.5 Mhz AM-CW in five bands; 455 Khz IF. Eandwidth 1.5 or 4 Khz; has two Collins plug-in

has two Collins plug-in mechanical filters.
Built-in crystal calibrator and controls for BFO, RF & AF Gain, Bandwidth, Power Select, Power Monitor, Band Switch, Ant Trin; meter monitors power. Operates from 24 VDC or 1.5 81x142x9, 25 lbs sh. Used-reparable, \$145.00



T-195/GRC-19 TRANSMITTER, 1.5-20 Mhz AM-CW-FSK in

1.5-20 Mhz AM-CW-FSK in ten bands, manual or auto tune. Power output 100 W (1.5-12), 90 W (12-16), 80 W (16-20 Mhz). Meters for PA grid, Cathode, Battery, and Modulation; uses two 4X150D's in PA and 20 other tubes. Requires 22-30 VDC 42 amp input (9 amp standby); 112x22x14; 135 lbs sh. Used-reparable \$125. lbs sh. Used-reparable \$125.

MT-851 BASE for T-195 & R-392, 60 lbs, \$15. MANUAL for T-195, \$7.50; MANUAL f/GRC-19,\$10.

RECEIVER POWER SUPPLIES W/ SPEAKER for 115 VAC 60 Hz operation of the following BC-453-454-455-946 R-23-24-25-26-27/ARC-5 R-10-11-15-19-22 ARC-type BC-348 BC-639

EC-348 BC-639
Include dynamic speaker housed in metal cabi
net with connecting cable, phone jack, volume control, BFO switch (if applicable).
Output: 200/250 VDC 90/60 ma and 24 VAC 2
amps; usable with other receivers having
similar requirements. Dimensions and parts
vary with availability of materials. SPECIFY
receiver type; 10 lbs. KIT, \$32. WIRED, \$40.

DC POWER SUPPLIES from 115 VAC 60 Hz input; #24VDC2A, 24 VDC 2 emps, 12:1b \$17 #24VDC4A, 24 VDC 4 emps, 14:1b \$20 TRED \$25.95

XMITTER SUPPLY



PP-2054/GRC POWER SUPPLY or T-893/GRC-50 for T-895/GRC-50 30 W SHF xmitter; regulated outputs +250 V 200 ma, +150 V 80 ma, +105 V 15 ma and unregulated +800 V 100 m, +650 V 80 ma, +654 V 80 ma, +360 V 80 ma, 115 VAC 2.2 amps. Has transformers 1000 V 300 ma and 435 V 370



ma, 2/6080 tubes, fro nt circuit breaker, AC outlet, and cooling fan. Requires 115 VAC 47-63 Hz; 72x16x172, 67 lbs. Used, \$54.95

COMPUTER SUPPLY

COMPUTER POWER SUPPLY with popular outputs 28
with popular outputs 28
VDC 9.6 amps and regulated 5 VDC 5 A, 12 VDC
5A, -12 V 2 A, -6.8 V
0.8 A. Operates from 100125 VAC 60 Hz. Supply has

many useful components such as transformer rated 39.8 VCT 8.5 A and 22.7 V 12 A, front panel w/(4) 10x2-7/xx1½ heatsinks and six 2N3055 transistors, (2) KB25005 bridge rectifiers, capacitors (3) 51000 mf and one 19000 mf 40 VDC, regulator PC card, other parts. Made in Canada for NCR. logx14x12, 65 lbs sh. #M32-01-775. \$29.95; 2/\$50.

20 V SOOO HE BUPPLY

LAMP POWER SUPPLY, an item for the experimenter who finds the 120 VAC 9000 Hz out from 120 VAC 60 Hz input intriguing or finds the supply a good source of usable parts. Consists of two 6x4x1 heatsinks each w/2N3055, transformer w/2-4 VCT 500 ma outputs, ferrite core autotransformers, PC board.
42x32x32, 9 lbs. GE#9T69Y1500-G4, \$4.95



SOLA CONSTANT VOLTAGE DC POWER SUPPLIES; 19" x 6" 40 lbs. sh wt. \$14.95 SOLA # INPUT 28238 180/240 200/260 28239 # "

115/208/230 28266 115/208/230

SOLA

OUTPUT 200 VDC 1.5 A 120 VDC 1.1 A 20 VDC 2.0 A 120 VDC 2.0 A

20 VDC 4.0 #237 CONSTANT VOLTAGE TRANSFORMER, 6.5 V 25 amp output from 90-130 VAC 60 Hz input, \$15.

VERY HIGH VOLTAGE



DC POWER SUPPLY WITH
107-125 VAC 60 Hz PRIMARY. Two outputs: -5.4
TO 5.75 Kv. @ 140 TO 300
U-A. ONE OUTPUT: -5.1
WT: 10 LBS. GE#9763Y2029G6, USED, \$10.95

COMPUTER POWER SUPPLIES

SOLID STATE POWER SUPPLIES constructed on rugged steel frames. Units have front voltage adjust ±108
running light, AC reset.
Also adjustable current
limiting and overvoltage protection. Power
input: 115 VAC 60 Hz. Removed from equipment.



Add \$10.00 to prices for "checked" units.

RATING SIZE Sh wt No. PRICE
4 V 30 A 132x7x152 65 lbs 926 \$30.00
4 V 75 A 192x7x20 125 lbs 650 60.00 No. PRICE 926 \$30.00 9 x7x16 35 lbs 655

20-24 V 5.5 A 9½x7x20 47 lbs 332 39.95 24 V 12.5 A 13½x7x15½ 65 lbs 4291 30.00 (#4291 is harmonic regulated type) 30 V 3 A 15½x7x19½ 38 lbs 889 27.50 32-36 V 4.8 A 9½x7x19 37 lbs 3236-48 27.95 (#3236-48 includes 12-36 V conversion info)

DUAL FOWER SUPFLY, same style as above, -32-36 V 14.7 A and -32-36 V 10.3 A; Two independent regulators w/common buss. 20x12x14, 125 lbs sh. #450, \$60.00



CASH REGISTER POWER SUPPLY OATH REGISTER POWER SUPPLY WITH 6 VDC GEL-CELL BATTERY OUTPUT FOR MEMORY. ALSO +6, +10, +15, and -24 VDC FROM 115 VAC INPUT. 8x82x72; 22 LBs. sh. ORIGIN ELEC. #08-0202550A, UNUSED, #45.00 \$25.

OPEN FRAME REGULATED



COMPLITER POWER SUPPLY TRANSISTOR REGULATED

TECTION. UNITS ARE IN GOOD CONDITION-REPARA-

BLE OKUEN BY	KALING AND	PARI NUMBER	۲.
RATING SI	ZE SH WT	No.	PRICE
5v 2A 14x4	1 x5 16	1012-01	\$10.95
5v 4A		1014-33	14.95
8v 4A OVP	" 16	1014-21	14.00
12v 3A OVP		1014-22	25.00
12v 6A 14x8	1 x5 23 ⋅	1018-32	35.00
12v 6A OVP	¹¹ 23	1018-22	37.00
30v 3A	11 23	1018-23	22.50
30v 3A OVP	11 23	1018-33	25.00
35-40v 500W OV	P, 14x8\x5,	60 LB, 103	37-12 \$35



FGC-29/1640 POWER SUPPLY, rated output 40 VDC 30 ma or 35 VDC 40 ma from 115/230 VAC 60 Hz input. However, the transformer is rated 180 VDC 40 ma and 6.3 V 1.7 A out. Also has 10 Hy 55 ma choke, 450 mf 50 VDC capacitor, 6X4 tube. X42, 5 lbs sh. Used. \$9.95

SCOPE POWER SUPPLY



CRT POWER SUPPLY; When used with 10 VOC 1.75

AMPS DC-TO-DC INPUT CONVERTER. WILL PRODUCE 7.5 KV FROM
12 VDC INPUT. OTHER LOW CURRENT OUTPUTS OF -2500 AND

-1500 VDC. TRANSISTORIZED WITH COVER AND CON-NECTORS. 11x6x5%, 10 LBs. USED, Exc., \$15.95 HFE LOW VOLTAGE POWER SUPPLY; OUTPUT: 10 VDC 1.75 AMPS, ADJUSTABLE -1 v. INPUT: 115 VAC 60 Hz. Transistorized with fuse and connector. 102x62x4; 12 LBs. Removed F/Equip., \$7.95 HFE CRT AND LV POWER SUPPLIES AS SET, \$20.00



BREAKER 12.5 VDC 2.5 AMP POWER SUPPLY; 4 AMP SURGE, 4 AMP CIR-CUIT BREAKER. 4-5/8x2½x6½; SHPG. WT: 6 LBS. #13-110, NEW, \$20.

MICROCOMPUTER POWER SUPPLY, USES
TWO 3-TERMINAL REGULATORS AND A
723 WITH TIP3055 TRANSISTOR.
INPUT: 115 VAC 60 Hz; OUTPUT: -25
VDC 180 Ma; -5 VDC 800 Ma, -15
VDC 1.25 AMPS. WITH SCHEMATIC. SIZE:
3\(\frac{1}{2}\)x5\(\frac{1}{2}\)x5\(\frac{1}{2}\)x4; SHPG. WT; 10 LBS. #ECRPS-744

UNUSUAL TUBES for collectors and experimenters. Filaments checked but not guaranteed.



JAN 218 RECTIFIER TUBE, 1/2 wave high vacuum; jumbo 3-pin base. 15½"Hx5" dia \$10. 250TH-R TRIODE w/bad filament 4-pin base; 10"Hx51 dia, \$8. JAN 705A RECTIFIER, 4-pin base. 5"H x 24" dia. \$5. JAN 715B PULSE AMP TETRODE 4-pin base, similar shape as 705A; 5% "Hx22" dia. \$6. WESTINGHOUSE CL-2 TUBE WITH-IN-A-TUBE, 122 "Hx2" dia \$7.

MAGNETRONS

MAGNETRON TUBES LESS MAGNETRON TUBES LESS
EXTERNAL MAGNETICS.
USED, \$24 EA. SPECIFY:
2J28 (2939-2965 MHz);
2J39 (3267-3333 MHz);
2J62 (2914-3019 MHz); (2992-3019 MHz); 2J2 (2914-2939 MHz); 2J3 (2992-3100 MHz); 2J6 (USED IN APS-4 RADAR)

S-300 TUBE (OPEN FILAMENT) 10" LG. 3" DIA. AS-IS, \$4.

TRANSMITTING TUBE 8012-A TRIODE

WIRE FILAMENT: 6.3 V. 1.92 AMPS.

MAX. PLATE: 1000 V. 80 MA. 40 W

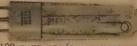
CAP: G-F 2.7; P-F 0.4; G-P 2.5

CLASS MCH. 18; GRID CURRENT 20 MA

TELEGRAPHY 35 W TELEPHONY 20W

W/DATA, UNUSED, \$2.00 EA. 4 FOR \$6.

8025 TRIODE, same as 8012 but 4-pin base, \$3.



ELECTRONIC PHOTO-FLASH TUBE R4330 SYLVANIA, OPERAT-ING VOLTAGE 2250, 6 FLASHES PER/MIN

100 WATT-SEC/FLASH MAXIMUM, PEAK LIGHT OUTPUT 12,000,000 LUMENS, INTERGRATED LIGHT OUTPUT 3500 LUMEN SEC. FLASH. \$10 OCTAL CER.SOC. 50¢

THYRATRON

GE #4JS1 SOLID-STATE THYRA-TRON, used-subject to test \$9. Amphenol #146-106 SOCKET for 4JS1, C6J, \$2.

FIELD TELEPHONES

TP-3 SOUND-POWERED FIELD TELE PHONE, portable hand-ringing nagneto type. Two or more can rhous, portable hand-ringing nagneto type. Two or more can be used in two wire system. Signaling range 15 miles; voice range less than 2 miles. With carrying case and strap. 8x10x3½, 19 lbs. Used-checked \$55.

RE-8 FIELD PHONE, similar to TP-3 except quires two "D" cells instead of sound pow and has extended voice range. WRITE

H-102 FIEID PHONE, similar to above except requires 3 and 6 VDC; 15 lbs. Used, \$30.00

S AND SUPPLY 24 100



24 VDC 6 AMP POWER SUPPLY originally used in Xerox equipment but usable to equipment but usuate to power R-392 receiver and other equipment. Requires 105-125 VAC 60 Hz input. 4x9\(\frac{1}{2}\)x8\(\frac{1}{2}\), 20 lbs. \(\frac{1}{4}\)x8-59134, used-checke\(\frac{1}{2}\)4.95

12 VDC 3.5 AMPS and 4 VDC 17.5 AMPS from 115 VAC 60 Hz input; has current limiting and overvoltage protection. 4 V output adjusts to 5 V; 14x82x6, 35 lbs sh. #9566WC, \$20.00

#9566-LC, same as above power supply only less regulator cards. Has output istors and heatsinks; nice foundation,



230 VDC TRANSISTORIZED POWER SUPPLY, 115 VAC 60 Hz input. Units marked "200 VDC" but they test at 240 VDC 300 ma. 5x4x5, 15 lbs. #5930, NEW, \$22

Many other tubes in stock. No complete list aveilable. WRITE us your needs. WE WILL SHIP "USED-CHECKED" TUBES IF "UNUSED" SOLD OUT, UNLESS YOU SPECIFY "UNUSED ONLY" CATHODE MAY SPECTAL TUBER STANDARD TYPES JAP1 \$10.00 5ABP1 30.00 5AHP7 30.00 \$1.50; UNUSED, USED, \$1.50; UNUSED, \$3.00 \$1.75 \$2.50 ea 5/\$10. 6JS6/6LR6 083 0C3 1A6 1A7 1D5 1E7 1J6 1K3 1R5 1S2 OLD TUBES as available USED, \$2.50; UNUSED \$4.00 0D3 IB3 IF4 082 083 003 0 144 145 146 147 1 105 106 105 1E7 1 1H6 1J3 1J6 1K3 1 1P5 1R4 1R5 1S2 1 1U4 1X2 1V2 1L44 1LC6 1LH4 1LN5 6A5 6A6 6A7 6A8 6B6 6B8 6C4 6F8 6G6 6H6 1C5 1H6 1P5 1U4 2050 5654 5749 5750 5763 6201 6C6 6F5 6K4 6K6 6J6 6J7 6N4 6N7 25.00 IG6 IN6 IT4 ILC5 27 30 35/51 3ADP1 1L4 1S4 6K8 6J4 6J5 6L4 6L7 6T8 6T7 6T4 6V6 6V8 6V7 6Y6 6Z7 6X5 5BFP7 6080 p-0 34.3B28 p-0 66.6550 p-0 \$5.6032 IMAGE 6J8 6Q7 6U8 39/44 55 56 78 79 5CP1/7 5BDP7 41 57 46 58 55 78 6.00 22.00 3E33P7 20.00 35.00 85 89/Y 5CLP11 USED, \$1.50; UNUSED, 3A4 3A5 3B4 3Q4 5FP7 USED-CHKD \$3. UNUSED \$4.50 10/VT-25 22 42 47 80 3RPLA 35.00 5FP14 15.00 6X8 TUBE NEW \$10 3.00 5GP1 15.00 5JP1/2 12.00 CHKD., \$2. UNUSED, \$3 7A5 7A6 7A7 7A8 7B5 7B7 7B8 7C4 7C5 7C7 7K7 7L7 7T7 7X7 7W7 7Q7 7S7 7Y4 7AD7 7AU7 7AH7 7AG7 SED, 2X2 used, \$1.50; unused \$3 2E24 or 2E26 used, \$3.00 2E22 or 5A6, used, \$4.50 CHECKED; UN=UNUSED. U=USED. 15.00 7A4 7B6 7E7 7V7 7Z4 71A UNUSED-BOXED, \$5.50 5NP1 3JP12 12.00 1 AE4 U 2C43 2C46 3RP1 K135P7 25.00 5UP1 7BP7 866 U \$4.50 15.00 2C43 U 2C46 U 2K25 U USED, \$1.50; UNUSED, \$2.50 954/955/956 958/991 1616/1619 1624/1626 4MP1 4FF7 35.00 7 CP7 15.00 5R4G 5T4 5T8 5U4G 5U8 5V3 5V4 5W4 5Y3G 5X4 5Z4 "MYE" TUBES, used, checked 6U5/6E5 or 6AL7, \$5.00 ea 10. UN 14A5 14E6 14S7 14A7 14F6 14W7 1488 14C5 14C7 14F7 14N7 14R7 28D7 726B 4J31 28. 25. u \$5 USED, \$1.50; UNUSED, \$2.50 ADD 25¢ EA. FOR METAL TYPE 811 checked \$7.50 Used \$1.50 Unused \$2.50 5J33 UN 5933/807W u \$5 6AB4 6AB7 6AC5 6AF4 6AF5 6AF9 USED, \$1.50; UNUSED, \$2.50 ADD 25¢ EA. FOR METAL TYPE USED, CHECKED, (WRITE) SCCKET for 5DEP31, \$2.50 1625 U \$2.50 513 6465 Un 4.50 1629 U 2.50 5A6 U 4.50 6L6GC Un \$4. TUBE SHIELDS & SOCKETS for 3BP1 or 3RP1 CRT's \$5.50 ea Shield only \$4/Socket \$2.50 USED CHA 12A6 12A8 100TH U 807 U 6AR6 6AU4 12A6 12A8 12C8 12B4 12H6 12J5 12J7 12K7 12L6 12C7 12W6 12X3 12AC6 12AF6 12AH7 12AU7 12AX4 12FX7 12BA6 12BA7 12BE6 12BF6 12CA5 12SF5 12SC7 12SH7 12SK7 12SL7 12SN7 CHECKED, 12D4 12K8 12Z3 12AL7 12AZ7 12AZ7 117 6AS6 6AS7 6AT6 6AU7 6AY3 6AV6 6AX4.6AX5 6BA11 6BC5 6PC6 6BH6 6BY3 6BK4 6BL7 5BN4 6BN6 6BX7 6BN8 6BZ5 6CB6 6CF6 6CG3 6CG8 6CL6 6CM7 6CU5 6CW8 6CY5 6CW8 6CY5 6CW8 Un 814 829B 8. 61.6GC Un \$4. 10. 6BQ5 U 2.00 8. Un 3.00 \$2.50 6BA7 Un 3.00 6DC6 Un 4.00 SHIELD FOR 5CP1, 5½" FACE, 2½" NECK, 14" LONG, \$5,00 SOCKET 5CP1 \$3; 5BP1, \$2.50 POWER AMP tubes, used-chkd unless otherwise noted; 6BF5 6BK7 6BC6 6CB5 6CG7 68K4 68K5 68N6 68Q7 68Z6 68Z7 808 Un (stt) - subject-to-your-test MU-SHIELD FOR 2" CRT, \$6.95 2C39A, 6 V fil., \$6.00 3CX100A5, 6 V fil., \$7.50 3CX100A5 unused \$18.00 6146B, NEW mfg., \$8.50 3CX100A5 umused \$18.00 4X150D, 26 V fil., \$10.00 4X150G, coexiel, (stt) \$20 4X250F, 26 V fil., \$12.50 4-65A/8165, (stt), \$12.50 4-125A/4D21, (stt), \$32.00 4E27/5-125B, (stt), \$24.00 4E27/5-125B, unused, \$30. 5894, (stt), \$22.00 6CU8 6CY5 6CY7 6DE6 6DK6 6DK7 6DQ6 6DN6 6DN7 USED, \$1.50; UNUSED, \$2.50 6CX8 6DA4 6DG6 6DQ5 6EA4 6EA7 8BQ7 8B10 9KZ8 10EG7 10DE7 15KY8 17D4 17BF11 17AX4 17GW6 17DQ6 19AU4 19T8 21JV6 21GY5 22JM6 23Z9 25L6 25W4 25DN6 25BQ6 25Z5 25Z6 32L7 35B5 35C5 35L6 35A5 35Z3 35Z4 35Z5 35Y4 50A5 50C5 50C6 50L6 50X6 50HK6 70L7 **MasterCard** 6ER8 6EH4 6EJ7 6EU7 6FV'5 6GJ7 6HM5 6EW6 6ES5 6FM7 6GF7 6FM7 6QF7 6QW6 6QM6 6JH6 6KA8 6KD8 6LU8 6SA7 6SH7 6SJ7 6SR7 6ST7 6HB7 6JT8 6LM8 6,108 WE WILL ACCEPT THE ABOVE CREDIT CARDS. 6507 6SL7 6ZY5 Ballast TUBES and THERMAL RELAYS, \$1.75 each: 1TF10 3-16 4-25 6-4 6C10 7H-4B 9H4 10T1 USED-CHECKED, \$3 ea: 26A6, 26A7 26D6 26E6 26C6 -USED-CHKD \$2.50; UNUSED \$ 9001 9002 9003 9004 9006 WHEN USING YOUR CREDIT CARD WE MUST HAVE THE NAME OF THE CREDIT CARD, ALL THE NUMBERS AND LETTERS ON THE CARD, EXPIRATION DATE AND NAME OF YOUR BANK. IF YOU DON'T SEE WHAT IF YOU DON'T SEE WHAT YOU NEED LISTED, PLEASE WRITE. 1016 E. EUREKA Fair Radio Sales Co., Inc. P.O. BOX 1105 LIMA, OHIO 45802-1105 Tel: Area Code 419-227-6573 Please Print Clearly **REMARKS:** Street Address R.F.D Post Office CATALOG STOCK NO Total Price Quantity DESCRIPTION Price Fach Add This Column

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MINIMUM ORDER \$5.00

LETTERS AND EXPIRATION DATE-BANK NAME

CAT. WS-84

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DELTROL 105ML MAGNETIC LAT-CHING RELAY, one SPST norm open; other SPST norm clsd. Actuates 15 VDC min. Octal base. 2x32x2, removed \$3.95 2PDT 48 VDC 3700 ohm coil; 5/8x1-7/8. MHX124 used \$1. 4PDT 48 VDC 3700 ohm coil; 1-5/8x2. MHX4069 used \$1. 2PDT 26 VDC 675 ohm coil, 2 amp; sealed, solder hooks. 3/8x1x2, #30-010 used \$2.00 2PDT 26 VDC 830 ohm coil, 2 amp; sealed, solder hooks. 3/8x12x3/8, #J26I4H6A \$2.50

OMRON 3PDT RELAY w/24 VDC 650 ohm coil; 2 A contacts. ll-pin solder/plug-in lugs. lxl*x*; #OM-MY3 unused \$2.



Gealed SENSITIVE RELAY, 50 ohm 28 ma coil; DPDT con-tacts. Solder hooks; lxlx21. #R400-2B-50, \$2.95

90 V 60 Hz 3PDT octal KA4187 \$2. DPDT 115 V 60 Hz 5 A contacts; oc-tal. KR5737 \$2.50 4PDT 120 VAC, 3 AMP contacts; 28 VDC 3 A RES. PLUG-IN SOLD-ER. \$x|x|\frac{1}{2}, #KH4695, \$1.50 4PDT 24 VDC, 120 VAC 3 A 24 VDC 3 A res. contacts. Plug-in solder type. \$x|x|\dagger #KH-4703, \$1.75 ea.

ALARM PC BOARDS

w/soldered re-lays, 3-LED's, transisters,

lays, 3-LED's, transistere, etc; 4kxlkx6 #556015, 2Sigma 70RE22ST-1000 DPDT
12 VDC relays w/2 A 28 VDC/
115 VAC contacts; \$5.25 #556168, 2-P&B RIOS-E2-Z4J500 sensitive relays, 500 chm 9 ma coil; 4PDT 2 amp contacts, \$3.75 #556-01R, one P&B RIO-E4904-3 4PDT relay, 12 VDC 1000 chm coil, 2 A; also Klixon 2 A cir-breaker, \$3

12 VDC 4PDT re-12 VDC 4FDT Fe-lay simalr to P&B KHU-series. 115 VAC 3 amp contacts; de-signed for PC board sock-et. #MEND-124P, \$2.95

Miniture plug-in, 28vDc,600 ohm,dpdt 2 amp.Filtors 1060 6555-1;#5945-987-8401 \$3.00

MacNacRaft SPDT, 12 VDC 10 amp contacts, 100 ohms. Open frame; 12x12x1. #88X-150A NEW \$2.50 ea.



SENSTIVE RELAY,
6 VDC, one pole
MAKE AND BREAK,
600 OHMS. 22×22
X12. #ZA/CAN1304
PRICE: \$1.00

SENSITIVE, SPDT 6-12 VDC 1500 ohms, contact adjust. 21x21x21; #RM39-1901, \$1.00

SENSTTIVE RELAY, 300 ohm coil res; operates @ 2.05 VDC. #Kll1801-1, \$2.00

RELAYS

PETER PAUL VALVE w/120 V 60 Hz 9 watt coil; 1/8° orifice, ll2"L hose. SER-GH 90 psi; 2 hose. SER-GH 90 psi; 2 lbs #PP-32NfDGW, unused, \$4.95 lbs. ASCO RED-HAT VALVE, 3/8* air orifice/pipe; 120 V 60 Hz 6 W. 2 lbs; unused, \$5.

POLAR RELAY, Type 255A, various man-ufacturers; black or grey case. 22x52x22, 3 lbs. #D163119A NEW \$3.25

12 VDC CONTACTOR, SPST n.o. 27 ohm coil; contacts 28 VDC 50 amps. P/o MT-297 mount. 32 X2X25, 1 lb. #GH-1679 \$4.

li5 VAC 60 Hz COIL 25 amp @ 28 VDC/ li5 VAC contacts; solder terminals. lix5xli; Kurmelec #26S2O/2054 used \$5.

OPEN FRAME DPDT RELAYS 10 amp con-tacts; size 2\frac{3}{4}x1-5/8x1-5/

#K104/HRX-1 CERAMIC 24 VDC no aux contact. NEW \$4.50 #DP-11510'115 VAC 60 Hz, r aux contact. Used, \$7.50

P&B PR-80164 OPEN FRAME, SPST n.o. 12 VDC; contacts 120 VAC 5 A. 22x 22x24, unused, \$2.50

ROTARY RELAY 28 VDC 4-wafer horiz-shaft; 1/2-break, 2/ 1-make 1-break, 1/3-make 2-break. 3-1/8x2x2 #K101/6 \$3 ROTARY, 28 VDC two wafers vert-shaft; 1-make 1-break, 3-make. 2 12x1 #K102,\$2.75

ROWAN CONTACTOR, TWO POLE CONTACTS
RATED 15 A 250 VAC,
10/15 A 100/50 VDC.
COIL VOLTAGE 100/
115 VDC. 3-3/8x22
x22. ROWAN #FE20, USED, \$2.

RELAY IPDT & IPST, CONT. 28vDC | A. MAX. PICK UP .9MA, DROP-OUT. | MA. 16000 OHMS SIG#80110

STGYOTTO \$2.50

SPDT, SINGLE BREAK; 28

VDC | A. CONT.800 OHMS DC

COIL, 3MA PICK-UP, 1.5 MA

HOLD, 75MA. MIN. OCTAL BAS
SIGE 77912

ADVANCE SEALED RELAY
3 STUD MOUNTING, SOLDER TERMINALS.
SIZE: | 2x2x| 2 C2x

SIZE: | ½ x2x| ½; 2 oz. PT#420-68-02| | ;4PDT 26.5 VDC, RES. 325 OHMS, 2 AMP. CONT. \$1.50



STRUTHERS-DUNN THOTHERS-DONN
CONTACTOR, 12
VDC coil, 24
VDC 50 A contacts. 3131
x25, 2 lbs sh.
#KS5722L \$3.95

GE#3SBW1001A2 SPDT 9.6-15.8 VDC relay 206 ohm coil; used in GE mobile trans ceivers. F/solder connections. lxl or socket New, \$1.50. 24/\$25.00

ROTARY RELAY 28 VDC, operates at 15 V; holds at 5 V. 22x 1-3/8x2, 2 lb. #5533/HK22, removed, \$2.

SPST 24 VDC OPEN FRAME, 25 amp contacts; 3-1/8x1-3/8 x1z. #B-2A-0PF unused \$1.75



P&B R10-E1-Y2 DPDT 12 VDC 1 AMP sensi-tive relay; clear plastic case, sold-er type w/socket \$2

DELTROL #20765-83 DPDT 12 VDC 6 A; plastic case, PCB mount. 1-1/8x2x1, NEW \$2.50

GUARDIAN DPDT 115 VAC 1 HP 10 A; solder terminals, plastic case. lixlix12. #A410-361342, NEW, \$2.50

POWERFUL 12 VDC SOLENOID, 1" max draw approx max draw approx
-very strong. Coil res approx 0.75 ohm; we recommend
a capacitor discharge-type
DC supply for this. Requires 1° threaded dia nut
for mount. 4x1½ dia; 2 lbs
sh. #12V-SOLWIND unused \$3.



ROWAN CONTACTORS
COIL 110V 50/60H2
FULL LOAD RUNNING
CURRENT 10 AMP.
LOCKED ROTOR
CURRENT 60 AMP.
600 V. MAX.
POLE USED \$4.95
POLE USED \$5.95

532934 3 POLE 532935 4 POLE

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LEDEX HEAVY DUTY SOLENOID #S-8210-025, 8-position 45° stroke, 28 VDC Starting torque: 5 lb-in @ 35 watts 5 10-in 35 watts
(15 1b-in holding) continuous duty. Upto 32.8 1b-in
starting torq. 3700 watts
1/20 duty. 75 size: 22" dia
1 1-7/8" with 2"13/8" dia.
shaft. 4 1bs. Unused, 34.95 dia

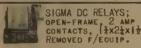
OPEN FRAME, SPDT 5.5-7.5 VAC coll; contacts rated 5 A 115 VAC. 12×1×1-3/8 \$5945-233-1398 \$1.25

ALLIED CONTROL T25 18, coll 115 VAC 21 0HMS. GOLD-PLATED T255X-C 2580 OPDT CONTACTS RATED
5 A 29 VDC. \$x-7/8
x1-3/8. UNUSED, \$3.00 Ex. 4PDT RELAYS, 110 VDC, heavy contacts. 2x2x12. Removed. #D0X187T, 5000 coil, \$2.00 #D0X187T, 24 VDC. 250 A\$1.50 DUAL COIL each SRST; one 24 VDC, other 48 VDC. PCB mtg. 25x2x12: #116-2601 \$2.50

24x2x12; #116-2601, \$2.50 TIME DELAY/SE-QUENCE RELAY,

has 3-SPDT & 1-DPDT 12 VDC A. relays. Delay sequence

Delay sequence 0N/3.58/5.0s/10 sec. Solidstate w/24 V l amp transformer, 250 mfd 50 VDC cap. II VAC 60 Hz input. $7\frac{1}{4}x3\frac{3}{4}x3\frac{1}{4}$, 3 lbs sh. #140-P197C $\frac{3}{2}6.95$



#41F1000S-SIL 12 VDC, \$1.50



12x12; #705-12P-12D NEW \$4. LEDEX PUSH-PULL SOLENOID. 24 VDC short-stroke flat-face; size 5, 1-7/8" dia. 2 lbs. #124-033-001 NEW \$3

* * * * * * * * * * * * DOLLAR DAZE RELAY



CLOTHING; 100 WATT BOX WITH INDICTOR KNOB ALSO ON/OFF SWITCH & DUAL LOCKING TYPE SOCKET DUTPUT VOLTAGES.

JIZE:5x4x2; WT: 3 LBS.

YPE C-IC UNUSED \$2.95



10K OHM POT, 1930's-40's precision pot; 4" dia shaft. 37x52"





#7709181-P6, 9-deck 25-pos 24 VDC \$7.50 #PW155511 type 44, 5-deck 10 position 24 VDC, \$6.98 RELAY; 21 x1 x1. #R-4376-2 \$2

P&R KR-4175-1 DP-DT PLATE RELAY; sealed metal can, requires octal socket. 2½x12x1-3/8. Unused, \$2.00

P & B 3PDT PLUG-IN TYPE RELAY WITH 24 VDC COIL. 120 VAC 10 A. CONTACTS. #KUP14D15, W/SOCKET, \$2 MC CONTROL RELAY, 120 VAC COIL; SPST N. OPEN 10 A. AND SPST N. CLSD. 10 A. CONTACTS. SEALED CAN, SOLDER TERM. 3 STUD MTG. 21x 11x12. #7321/6717, \$2.50

ROTARY SOLENOID has 48 VDC coil and 3/12 dia wafers w/complex switching action Sold for solenoid only. Ledex #B-61818A used \$2.00

RHECSTATS

RHEOSTAT VALUES: FIRST SET OF NUMBERS AFTER RHEO-PREFIX IS THE WATTAGE.
YOU INDICATE DESIRED OHMS IN SECOND SET.

SCD= SCREWDRIVER ADJUST. #RHE0-25W-(ohms), 10 1 2 5 6 10 12 15 25 35 50 60 75 100 125 175 200 250 300 350 400 500 600acd 1K 1500 2500 3500 5K 10K

#RHEO-50W-(ohms), \$1.75 ea 6 8.5 12 15 16 17.5 20 30 35 45 50 60 150 200 225 375 220 500 2.5Kacd 10K

#RHEO-75W-(ohms), \$2.25 ea 15 25

#RHEO-100W-(ohms) \$2.75 ea 20 100 500 1500 3.5Ksc

#RHEO-150W-(ohms) \$3.50 ea

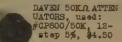
300 WATT 0.2 ohma, NEW, \$10 MIRRA 25 WATT
"ANTIQUE" POTS W/ knob and pointer.

Looks like those used in 1920's radios. Specify ohms: 6, 250, or 400. Unused, \$4.50

10-T HELIPOTS

10-TURN HELIPOTS 2*Lxl2* dia; 2* dia shafts. Used. 10K OHMS 3-term 5%, 1*1 shft \$3 30K OHMS 3-term 3%, 1*1 shft \$3 50K OHMS 3-term

5%, 1/8* sht \$3. MODEL RB DUODIAL counter dials for helipots, \$4.00





tact area. Also one 26 VDC DPDT scaled relay 3/8xxx7/8 #792-312, unused, \$3.95

CRYSTALS

FT-241 CRYSTALS f/BC-604, 684; channels 0-79. No choice 3/\$1. Choice \$1.50 200 KHZ FT-241 KTAL, \$3.50 1000 Khz CRYSTAL, temp. co-eff. 0.0001% (±10 Hz/°C. Octal base; f/BC221-TS323-IM21 freq. meters. Socket wiring may be changed. \$12. JK-02 CRYSTAL OVEN

OPERATES FROM 6.3-24.2 V. AC/DC,OCTAL BASE.
MOTOROLA #251B1001
FOR ONE CRYSTAL AS
USED IN R-394-257
RECEIVERS. \$1.95
MOTOROLA#251B1003 FOR TWO
CRYSTALS AS USED IN T-278208 ETC. TRANSMITTERS\$2.50

INCUIT BREAKEN



AIRCRAFT CIR-CUIT BREAKERS, AN-3160 is toggle style. AN-3161 push-Removed.

25, or 50
amps, \$1.95 each
5, 10, 15, or 20
amps, \$1.00 each. AN3160 AN-3161

HEINEMAN MODEL HRILEMAN MODEL
AMIZHK, 2½x2½x2½
12 VDC 3 A \$1.25
50 VDC 3 A \$1.35
50 VDC 40A \$1.50
AM1516 50 V 100A 4x32x1 \$4.

AMI2 115 VAC 60 Hz \$1.50 AMPS: .93, 1.75, 4.2, 5.15

AIRPAX UPL1-11-676 65 VDC 45 A; delay 51, trip 56.25 A. 22x2x21. NEW 33. #UPG1-1REC2, 65 VDC 1.25 amps;

VDC 1.25 amps;
delay 51, trip
1.57 amps. Aux switch 10
amp 250 VAC. 2xx221, 33.00
HEINEMAN AM33MG3, two pole
115 V 10 A; 12x2x22 \$2.50
HEINEMAN CD2

type CIRCUIT BREAKERS, ganged two pole; 42x2x4 2 lbs. NEW

#CD2-Z10-1, Rt 0.035 A DC Cur P. Lt 68 A 270 VAC 60 Hz Cur 3. \$4.00 #GD2-Z74-2, 10 A 132 VAC 60 Hz T.D. 2; 125 A 10 VDC T.D. 3. \$4.25 #CD2-A3-DU, two 18 amp 240 VAC T.D. 1. \$4.50

P&B #375-207-101, 7 amp 250 VAC or 32 VDC max. Recessed button. ½x1½x1½. NKW, \$1.25

HEINEMAN CIRCUIT BREAKERS: #AM2511M6, 230 V 3.7 amps 32x32x1, used \$2.25 ea #JA2-A8-A, 240 VAC; hold 17 A, trip 21.25 A. \$2.

MAGAZINES

We carry current issues of CQ \$2.00 QST \$2.50 Ham Radio \$2.50 73 \$2.50

BOOKS & TECH MANUALS

\$3.00 each * * * * * AM-598 PP-867-868

DY-93-98-100 ARC-27 0.I. ARN-59 O.T

\$5.00 each RT-66-67-68 RT-70 AM-65 R-520 (mil-Zenith Transoceani BC-191 RU-19 BC-221AH only PP-281-282 -484 repro PP-804 PP-109-112 \$5.00 each PU-1430 RD-60 AN/GSC-1 I-208 AN/PDR-27

37.50 each BC-312-342 SX-28 repro

BC-652-653 BC-620 BC-1000 AN/FRC-6 PRG-9A-10A R-108-109 -110 R-257 T-278-416 AN/ARN-12 AN/CRT-3

FGC-20 & 21 contains TT-98, -99,-100 and PP-978, \$10.

SCHEMATICS

REPRODUCTIONS of schematics \$1.50 and up. WRITE.

TEST EQUIPMENT MANUALS AN/TRM-1 repro \$10. \$10.00 repro AN/URM-25D repro AN/URM-25F repro AN/URM-25F repro AN/URM-26B repro SG-12/URM-48 repro TS-403/URM-61 repro 10.00 12.00 12.00 TS-621/URM-52 repro 10.00 FR-5/URM-80 TS-510/USM-44 repro AN/USM-50 repro AN/USM-105 repro 10.00 AN/USM-116 repro AN/USM-117 repro AN/USM-140 repro 17.00 FR-149/USM-159 repro 10.00 BC-221 f/most models Reproductions \$8.50 each: TS-148 SG-92 TS-352 TS-382 TS-433B

TS-4978 TS-505 TS-1060 TP-173B PRM-10 TV-2, -7 or -10A \$10 ea. \$6.00

TEK G TEK H \$6.00 1A1 8.50 1A4 7.50 130 6.00 6.00 142 1A5 7.50 131 453 6.00 8.50 138 6.00 556 8.50 CA partial repro, 8.50 HICKOK 1805, part-repro \$15 \$4.95

TOOLS & TECHNIQUES, 4.
AUDIO FREQ TESTERS, 4.
RADIO FREQ TESTERS, 4.
IC TEST ECUIPMENT. 4.
TI SEMICONDUCTOR MEMORY, 2007 (1005) 4.95 4.95

TI SEMICONDU BOOK (1975), \$1.00 TENNES: All manuals include maintenance info & schemeic unless noted otherwise.

O.I. Operating info only N.S. No schematic repro -Partial reproduc-tion w/operating, main-tenance info & schematic

AN/ARC-5 BANCH TEST and ALIGNMENT, covers neces-sary info to align R-25A, R-148, R-25-26-27 recei-vers; T-18 thru T-22 mmit-ters; and MD-7 modulator. W/schematios: repro. 37.50

AN/ARC-27-55

AN/ARC-38 repro 17.00

AN/ARC-38A repro 20.00 AN/ARC-38A repro RT427/ARC-39 repro AN/ARC-44 ARC-60 (R19-CV431) 8.3 ARC TYPE 12 including R-10-11-15-19, T-11-13 8.50 and related equip. 8.50 AN/ARN-30 repro 10.00 R-648/ARR-41 repro 15.00 8.50

AN/ART-13 transmitter repro 10.00 AN/GRC-9 8,50 AN/GRC-19 10.00 AN/ARR-52 repro R-395/PRD-1 repro 17.00 15.00 AN/TRC-1 (T-14, R-19, and AM-8 pwr amp) 8.50 AN/TRC-8 (T30/R-48) 8.50 AN/VRC-19 (R394/T278)8.50 R-391/URR repro 17.00 17.00 BC-348-J-N-Q repro BC-348-K-L-R repro 10.00 BC-624/625 repro BC-639 BC-669 8.50 repro BC-779/1004

CV-157 repro CV-591 (MSR-4) repro R-140 (HRO-5) repro 15.00 10.00 \$12.00 R-220/URR-29 R-274 re repro R-388 (51J3) 73) repro repro 15.00 R-392 repro SP-600-JX repro 15.00 10.00 T-195 8.50 TCS-12 repro 12.00 U.S. ARMOR COMMUNICATIONS ELECTRONICS DATA (book), 12.00 July 1973; descriptions of mil-radio equipment, \$3.00 A USERS GUIDE TO ARC CORP RECEIVERS -- by M. Tauson; ARc-5, ARC-type 12 etc. \$4.

NEW WEATHER SATELLITE HAND' BOOK, R.E. Taggart; \$8.95 LOW & MEDIUM FREQUENCY SCRAPBOOK, 4th Ed. \$9.95

LIVING ON A SHOESTRING by G. Ewing; "serounging" \$8.

ARRL BOOKS

1984 RADIO AMATEURS HANDBOOK \$12. SOLID STATE BASICS f/amateurs \$5. SOLID STATE DESIGN f/amateurs \$7. SOLID STATE DESIGN f/amateurs \$7.

ANTENNA BOOK, theory and instruction on antennas, \$4.

ANTENNA ANTHOLOGY, articles from QST on antennas, \$4.

LICENSE MANUAL, a study guide for the novice, \$4.00

UNDERSTANDING AMATEUR RADIO, an introduction, \$5.00

THE SATELLITE EXPERIMENTER'S HANDBOOK, \$10.

OPERATING GUIDE. \$5.00

HINTS & KINKS, \$4.00

EM & REFEATERS f/SI, \$5

ARRI LOG BOOK, \$1.75

TUNE IN THE WORLD OF HAM RADIO, wkbook & casstte \$8.50

BASIC BOOK OF HAM RADIO, \$4.00

OMETERS AND DOWN, \$4.00 200 METERS AND DOWN, \$4.00

VINTAGE RADIO 1887-1929, pictoral story of radio's early years; 1000+ pictures and commentary, 263 pp. Softbound, \$9.95; A FLICK OF THE SWITCH 1930-1950, sequel w/TV, \$9.95 1921-1932 RADIO COLLECTOR'S GUIDE, listing of over 9000 radios; 1100 mfgs; 263 pp. Softbound, \$9.95 MOST-OFTEN-NEEDED 1926-1938 RADIO DIAGRAMS, reprint of Beitman's book of 600 old radio schematics, \$9.95



R-278 RECEIVER, 225 to 399.9 Mhz AM; crystal frequency control for 1750 channels in 100 1750 channels in 100 Khz steps; ten preset channels. Audio freq

channels. Audio freq response: 200 Hz-20 Khz (wide), 200-5 Khz (narrow). Has AVC, squelch, and 44 tubes; unitized chassis, rackmount. 121191220, 115 lbs sh wt. Used, less guard channel, reparable, \$125. MANUAI, partial repro, \$15. Schematic, \$2.50

POWER AMPLIFIER



POWER AMPLIFIER ASSEMBLY removed from 225-400 Mhz transmitter; makes an excellent feundation for your power amp. Has escillater section with 12AT7, lat doubler (12AT7), buffer (12AT7), and a push-pull tripler with two 4X150's. Manual controls for crystal select, RF driver w/lock, and PA tuning w/lock. PAgrid and plate currents could be monitored by adding a 200 microammeter and switch. POWER AMPLIFIER ASSEMBLY

by adding a 200 micreammeter and switch. Silver-plated chassis includes heavy duty blower and tubes 3/12AT7, and 3/4X150A (6 V fil.) 14x10x5, 33 lbs. #PA/TED w/schem, \$77.

MHZ SSB RECEIVER



AN/FRR-59A TRIPLE CONVERSION AN/FRK-39A TRIPLE CONVERSION
SSB RECEIVER WITH FULL CARRIER SUPPRESSION FROM 2 TO
32 MHZ IN FOUR BANDS: (2-4)
(4-8), (8-16), AND (16-32)
MHZ. RECEIVES LSB, USB, AM,
CW, AND MCW SIGNALS; LSB
AND USB RECEPTION POSSIBLE SIMULTANEOUSLY OR SEPARATE-

SIMULTANEOUSLY OR SEPARATELY. INCREMENTAL OR CONTINUOUS DIGITAL TUNING IN 0.5 KHZ STEPS. INTERMEDIATE FREQUENCIES (IF): 1625-1725 KHZ, 220 KHZ, AND 80 KHZ. BUILT-IN I MMZ CRYSTAL CALIBRATOR. AF LINE OUTPUT: 60 MW INTO 600 OHMS (MIN.); PHONE OUTPUT: 15 MW INTO 600 OHMS (MAX.). RECOMMENDED ANTENNA TERMINAL IMPEDANCE: 50 OHMS. USES 7- AND 9-PIN 6.3 V.

glass tubes. Requires 105-125 VAC 50/60 Hz; 25222224, 300 lbs sh. Connectors to make interconnect cables and partial repro of manual included. Used-not checked, \$250.00

ALTIMETER TRANSCEIVER



RT-7/APN-1 ALTIMETER TRANSCEIVER, 418 TO 462 MHz FM; ABSOLUTE READINGS TO 4000 FEET. CAN BE CONVERTED FOR

TAINS WOBBULATOR, DY-AND TUBES 2/955, 2/9004, 3/12SJ7, 2/12H6, AND 0D3. POWER REQUIRED:
AMPS. SIZE: 82x182x8; SH WT: 25 LBS 4/12SH7, 27 VDC 3 27 VDC 3 AMPS. SIZE: 82x182x8; SH W UNUSED, \$18.95; SHOCKMOUNT ASSEMBLY FOR APN-1, \$2.00



SA-I/ARN-! ALTITUDE LIMITER SWITCH USED WITH RT-7 AND ID-14A IN CONJUNCTION WITH AN AUTOPILOT SYSTEM. ALTITUDE LIMIT SET FROM 50 FT. TO 300 FT. IN 25' STEPS; X 10 MULTIPLIER FOR HIGHER ALTITUDES. DESIGNED TO SIGNAL WHEN MIN. AND MAX. LIMITS ARE EXCEEDED. 3" DIA. UNUSED, \$2.95



OMNI-SPECTRA 11147B OSCILIATOR, impressive lecking geld-plated miniature es-cillater; no techni-eal into available. We do know that Cani-Spectra specializes in small microwave ecazial components for frequencies above 1 Chz. Selid-state; SMA fitting, 1x423 \$40.

30-300 NHE RECEIVER



UHF RECEIVER,

covers 30 to 300 Mhz AM, FM, CW in bands 30-90 and 60-300 Mhz AM, with selective 20 or 300 Khz. IF 21.4 Mhz; IF reject © 30 Mhz is 54 db, above 50 Mhz is 80 db. Sensitivity: 1 uv/4 uv (AM) and 2 uv/6 uv (FM) for bandwidths 20 Khz/300 Khz © modulated 1 Khz. Video output 5 vrms across 10K ohm load. Meters for Tuning and Signal, separate band tuning knobs and dials, EFO, RF/IF Cain, Audio Gain, Video Gain, Cor Sens, 600 ohm auio out. Partially transistorized; has 2/6CW4, 8058, 7587 nuvistor tubes. Requires 115/230 VAC 50-400 Hz; partial repromanual from microfiche included. 52x19x15, 25 lbs sh. Used-operational/not to specs 3495

R-1538/GLQ-3 RECEIVER, same as R-220/URR ex-cept has 115 VAC 400 Hz modular power supply; covers 20-237 Mhz AM, FM, CW in seven contin-

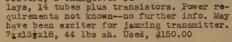


oovers 25-50.

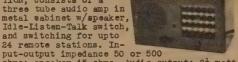
FM, CW in seven continuously tunable banks.

455 Khz IF; IF selectivity 10-50-200 Khz. Calibration points every 5 Mhz. Antenna input impedance 95 ohms; no covers. 102x19x141, 100 lbs sh. Used, \$325.00

0-1351/GL RF OSCILLATOR, O-1551/GL RF OSCILLATOR, covers 1.5-350 Mhz in 8 bands; controls Int-CW-Ext Medulation, Antenna-Standby-Dummy Load, RF Gain, Adj for Max Output. Has Collins-type VFO, 8 filters, 8 changeover relays, 14 tubes plus transistors. Power requirements not known-no further info. May have been exciter for jamming transmitter.



LS-128A/F INTERCOM STA-TION, consists of a three tube audio amp in metal tabinet w/speaker, Idle-Listen-Talk switch,



ohms; speaker 45 ohms. Addio output: 2½ watt. Includes terminal blook on 5' cable and 6V6, 6X5, and 6SJ7 tubes. 13½ x7½ x7, 23 lbs sh. Used, \$18.95; unused \$27.95. Manual \$5/set.

TRANSISTORIZED GUARD RECEIVER f/
modified RT-176/ARC-27; one
channel in 238-248 Mhz
range. IF's 25.1/3.45 Mhz;
has detector, noise limiter, AVC, 4/2N1745 transistors, and 25.1 Mhz filter.
8x42x4, 6 lbs sh. #5821-953-9695 used \$12.95

AM-777 AMPLIFTER DETECT-OR, p/o RT-128A/ARC-21 2-34 Mhz transceiver; IF's 1800/300 Khz. Slug tuned; w/tubes 4/5638, 3/5896 3/5899, 3/6021, 5840, 5902, and 5719. Schematic included. 1322232, 5 lbs. Used, \$10.00

COLLINS 180L-3



COLLINS 1801-3 AUTOMATIC

COLLING 1801-3 AUTOMATIC ANTENNA COUPLER, usable with transceivers in the 2-25 Mmz range, 50-180 watts. Automatically resonates an antenna to a transceiver's frequency and couples the RF signal between the transceiver and antenna. Also transamitter is unkeyed. Coupler has 7-970 pf 3 KV vacuum variable capacitor and variable ribbon 32 uHY inductor; also smaller roller inductor and 3WR meter circuit. Requires 28 V-DC 3 amps, 250 or 400 VDC 35 ma, and 115 VAC 400 Hz 20 VA. 10½x7½x11½, 24 lbs sh wt. Used, \$109.50; Manual, partial repro, \$10.

RT-SIL TRANSCEIVER



RT-311/ARC-38 AM
TRANSCEIVER, 2.0 to
25 Mnz from 20 preset
channels. Frequency
interval: 500 Hz (2.07.25 Mnz) and 1000 Hz
(7.25-25.0 Mnz). Has
autotune from channel to channel. Minimum
peak output 100 watts (2-14.25 Mnz), 90 watts
(14.25-25 Mnz). Antenna tune power: 50 watts.
40 db carrier suppression. Receives AM or
CW; sensitivity 5 uv for 6 db signal (phone).
Selectivity: 7.5 Khz min 6 db, 20 Khz max
60 db or 1.8 Khz min 6 db, 20 Khz max
60 db when in CW sharp position. Unit has
VFO and 25 tubes including three 6159's in
power amp. Requires 28 VDC, 600 VDC, 250 VDC,
-50 VDC, -65 VDC and 6.3 VAC. Also 115 VAC
400 Hz for selsyn on PA inductor. 152x8x232,
65 lbs sh. Used, not checked, \$85.00
MANUAL, partial repro, \$15. w/set purchase.
COLLINS 618S-1 TRANSCEIVER, similar to RT-COLLINS 6185-1 TRANSCRIVER, similar to RT-311/ARC-38 but without VFO. Crystal-control-led AM receiver, \$54.50. Schematic, \$3.00 618S-1/MC TRANSCATVER, modified for SSB by RCA, xtal-controlled, \$99.95. Schematic, \$8.

RT-594/ARC-38A SINGLE SIDEBAND TRANSCEIVER. similar to RT-311/ARC-38 except has SSB capabilities. Used, not checked. \$145.00 RT-311/ARC-38 or RT-594/ARC-38A replacement modules removed from sets. Write your needs.



C-1398/ARC-38 CONTROL BOX for control and frequency selection of ARC-38. Twen preset channels or manual in 500 Hz steps. With code book. Most functions opera-ble with ARC-38A SSB set except for function switch which would have to be dis-

abled and provision for side band reception added. 725526, 14 lbs. Used, \$14.95; Schematic, \$2 if bought w/Box. C-3428/ARC-38A CONTROL BOX, same as C-1398 except has SSB function switch for use with RT-594/ARC-38; used, \$19.95. Schematie, \$2.

RT-524M AIRBORNE TRANSCEIVER mfg. by Aircraft Radio; covers 136.00 to covers 136.00 to
149.95 Mhz AM in 50
Khz crystal-controlled
steps. 15 watts output.
Has volume and squelch
controls. Requires 24
VDC 6 amps. With tubes
8156, 2/8102, 6/6CW4, and
2/7587. Schematic not available. Size: 62x37
x14; 10 lbs. sh. Used, no cover, \$52x35 \$40.

R-1134/WRR-3 VLF RECEIVER, 14-600 Khz AM-CW-FSK in five mechanical digitally tuned bands. 82x172x164 80 lbs. Reperable \$215. Chk4 \$295. R-482/URR-35 UHF RECEIVER, 225-400 Mhz AM-CW in one band. 82x172x19, 65 lbs. Reparabl #95.

BC-AS-229 RECKIVER, 201 to 398 Khz and 2500 to 7850 Khz using plug-in coil sets. Uses tubes 37, 38, & 4/39's. Requires 230 VDC 80 ma and 12 V. 8x7x16, 15 lbs sh wt. Used, less tubes & coils \$9. With tubes/no coils, \$16.95 Plug \$2. TUNING KNOB, \$2. MANUAL, partial repre, \$8.50





AM-1955/GRC AMPLIFIER CONVERTER USED WITH R-1148/GRC-55 RECEIVER FOR 600-1000 MHZ BAND. 17 MHZ IF. HAS 115 V 60 HZ MOTOR AS PART OF AFC SYSTEM. WITH TUBES 2C40A, 2/5842, 5654, IN21B, IN21WE. 150 VDC AND 6.3 VAC REQUIRED.

SIZE: 15x92x8; 30 LBS. SH. USED, \$50.00 \$38.

ANADIAN REMOTE STATION



CANADIAN CHANNEL CONTROL BOX, originally used as a four channel remote unit four channel remote unit
for a transmitter; looks
like it might be adaptable
as part of an intercom system. Has push-to-talk handset, 3½ 600 ohm PM speaker, audio transformers 600
ohm to 8 ohm and 50 ohm to
600 ohm CT, volume control,
600 ohm CT, volume control,
each), phone and key jacks, two pilot lights,
and other parts. Heavy aluminum cast case.
15½x13½x6½, 34 lbs. #CAN-4C-RC unused \$22.95



TCS SPEAKER-CONTROL UNIT, has 5" dia permanent mag-net 6 chm speaker, 500 to 6 chm audio transformer, velume centrol, headphene and mic jacks, and three teggle switches. 5½x7½x3½, 8 lbs. #TCS-23270, \$12.95

CLASS C POWER

CLASS C POWER AMPLIFIER removed from T-195/GRC

100 watt transmitter;
uses 4X150D tube to
cover 1.5 to 20 Mhz in
ten bands using variable and fixed capacitors switches, and 400
Hz servo motor. Chassis
also has discriminator and servo amplifier.
Requires + 1000 VPC modulated, +250 VDC, -45
VDC, and 125 VAC 400 Hz for motor. Includes
tudes 4X150D, 5751, 6AQ5, 5763 and schematic
info. 9½x8½x6, 15 lbs sh. #PA/T195 used 345.

VFO-MASTER OSCILLATOR FROM
THE T-195 TRANSMITTER;
GENERATES FREQUENCY OF 1.5
TO 3 MHz. Has 5749 OSCILLATOR TUBE AND 5749 BUFFERAMP TUBE. WITH 2x3/16" DIA.
SHAFT. 22x32x7, WT: 5 LBS.
VFO/T-195, REMOVED F/EQUIPMENT,



EXCITER STAGE FROM T-195, USED TO AMPLIFY VFO OUTPUT AND SUPPLY DESIRED TRANS-AND SUPPLY DESIRED TRANSPORTED TO POWER AMP. SLUG TUNED IN RANGES (1.5-3), (3-6), (6-12), AND (12-20) MHz. WITH TUBES 6AUG, 2/6AKG, AND 5763. SIZE: 42x32x8, 12 LBS. EXC/T-195,



MODULATOR F/T-195, DESIGNED TO PROVIDE PROPER AUDIO POWER TO MODULATE POWER AMP AND SUPPLY SIDETONE. 300 HZ AND 3500 HZ BANDPASS. W/TUBES 5726, 2/12AT7, 5814. LESS 4X150 TUBES AND SOCKETS. 82x6x41, 6 LBS. \$10.95

TRANSISTOR RADIOSONDE

TRANSISTORIZED RADIOSONDE WITH CLOCKWORK TIMING MECH-ANISM (NO KEY); USED IN METEOROLOGICAL OBSERVATION OR SIMILAR APPLICATIONS RE-



OR SIMILAR APPLICATIONS REQUIRING AN EXTREMELY LIGHT-WEIGHT TRANSMITTER. UTILLIZES A 2-TRANSISTOR MODULATOR AND A 2-TRANSISTOR TRANSMITTER CIRCUIT. TRANSMITTER AS 7533 INTEGRAL CAVITY TUBE WHICH FUNCTIONS AS THE TUNED CIRCUIT FOR THE OUTPUT: 1660-1700 MHz, 575 MW (NO FURTHER DATA). WITH HUMIDITY ELEMENT. TRANSMITTER SIZE: 2½" DIA. X 6"; OVERALL SIZE: 7+x4x5½. SHPG. WT: 4 LBS. FRIEZ #3002, UNUSED, \$9.95

AN/AMT-4A RADIOSONDE, consist of T-504A xmitter and MD-147C modulator; unit is similar to Friez 3002 except uses tubes 5794 and 5875 and operates at 1650 Mnz. Requires 1.5, 6, & 15 VDC. 2 lbs sh wt. #T-304A transmitter only, \$4.95; 2/\$8. MD-147C modulator only less humidity and pressure elements, \$3.00; 2/\$5. T-69F/AMT-2 RADIOSONDE XMITTER only, 390-410 Mhz; 5703, 5910 tubes--\$2. BB208 battery, \$2.

TELEVISION 'TUNE-UP'

HEATH VHF TUNER & IF SEC-SECTION, transistorized mechanical detent tuner with fine tuning; transistor IF s tion. Probably used in most Heath mid-1970's color televisions. Fix-up that old TV. Factory as-sembled; no schematic. #100-1071 unused \$12.

MX-329 GYRO ASSY

MX-329/ASG-10 BOMB DIRECTOR GYRO set in MT-338 shockmount. Gyro is operated mount. Gyro 1s operated from external air pressure and has 27 VDC gear motor to lock gyro. Aluminum housing 4-3/8" dia; gyro about 2½" dia. Has glass window on one end with -20 to 0 to 460 scale for monitoring relative attitude. 6½x7x9, 10 lbs sh. \$29.50

ZE138 300 MM

CARL ZEISS S-TESSAR multi-ele ment color-corrected COPY LENS; 300 mm focal length and fixed aperture of F6.6. Front lens un-aperture of F6.6. Front lens un-acrews and is usable as separate 127 mm lens; 62 mm dia. Outer metal ring 3-5/6* dia; rear barrel 3" dia x 1-5/8*L. 0/a 3-1/8" long. 3 lbs sh. #300MM-ZSL, NEW, \$16.95



180 MM LENSE with aperture adjust able in stops f4.5, f5.6, f6.3, f8, f16; might make nice enlarger lense for 4x5 format. 2-5/8x22 dia; 2 lbs. #AST-L180 used \$10.95

> VASCAR II TIME COM-PUTER-IN-

VASCAR II SPEED TRAP



inally used by police agencies for clocking speed of vehicles while the pofor clocking speed of vehicles while the police car was either in motion or stopped. Unknown vehicle is determined by referencing it to the known speed of the police car over a predetermined distance. Clocking possible of vehicle in front of, behind, in opposite direction of, or across the path of the police car. Displays average speed in tenths of miles per hour upto 199.9 mph. Computer module consists of four circuit boards with 5 VDC logic and transistors. Operates from 12 VDC 3.44 mps. Tocludes computer module. 12 VDC 3.4 amps. Includes computer module, control module w/cable and plug, power plug, transducer is not available. 2½x13½x7½, 18 lbs sh. Used, operational-not calibrated \$60.

ANTENNA TUNING ASSEMBLY with two 20-400 pf 0.02" air gap variable capacitors. Each rotates 180 in 10 sec using 24 V 60 Hz and 4 mf 330 VAC capacitor (not included); can be adapted to differentcan be gaspeed to different—
ial use. 360 rotation actuates fixed capacitance in parallel over next 270 in 13 steps.
400 Hz servo motor runs on 24 V 60 Hz; intermittent 115 V 60 Hz required to engage
fixed capacitance steps. W/schematic; 4½x6½
x3½, 5 lbs sh. #2-Cl003/T-125, used, \$8.95



GRAB BOX ASSORTMENT OF USED AND UNUSED MANUFACTURERS AND GOVERNMENT SURPLUS ELECTRONIC PARTS SUCH AS ASSEMBLIES, MOTORS, COILS, TRANSFORMERS, CHOKES, CIRCUIT BOARDS, CAPACITORS, RESISTORS, AND OTHER USABLE ITEMS. PACKED IN 50 LBS. CARTONS. \$7.50 EA. OR TWO CARTONS FOR \$13.00.

SHIPPED VIA UPS WITH FREIGHT CHARGES VARYING FROM \$5 TO \$16 PER CARTON. ALLOW FOR FREIGHT. GRAB BOX IS GOOD FILLER TO TAKE ADVANTAGE OF MOTOR FREIGHT 150 LBS. MININUM WEIGHT RATES.

COMPRESSOR-VACUUM PUMP



COMPRESSOR/
VACUUM PUMP UNIT, originally used with medical equipment.
Could be used as-is or dismantled for separate components. Consists of Gast #1531-V-175351 motor rated 115 VAC 60 Hz l.7 amps, 1/10
HP 3450 RPM. Compressor duty: 1.5 GFM © zero
PSIG to 0.95 CFM 20 FSIG max. Vacuum duty:
1.5 CFM © 0" HG. Compressor outlet connected to
four valve assembly; each valve has i" oriface and rated 5 PSIG. Printed circuit board
cycles valves 15 seconds on/15 sec off, two
valves or all four valves functioning according to position of valve selector switch.
Compressor fittings standard 1/8" NPT. Includes 4-blade cooling fan and sound insulacludes 4-blade cooling fan and sound insulated enclosure for low noise operation. 10x 13\frac{1}{x}18\frac{1}{x}, 34 lbs sh. #AS-LAP-VP, used, \$34.95

AMT-6 RADIOSONDE

AN/AMT-6C RADIOSONDE WEATHER ANALYSIS SET, designed to be r leased from high-flying air-eraft to transmit temperature, humidity, and pressure data on its descent. Transmits pulse signals in 399-403 Mhz range at repetition rate of 20-550 Hz, 140 watts peak. Includes 18° dia dregue and 48° dia vented parachutes, humidity-temperature-pressure elements, and tubes 5696, 5875, 6026. Requires 1.5, 6, 135 VDC. Looks like an interesting experimenter's item. 51* dia X 212*H, 9 lbs sh. Unused, \$14.95



WELCOR RECORDER

WEBCOR TAPE RECORDER, plays and records @ 32 or 72 ips; accepts upto 7" dia reels. Has standard features fast forward/rewind plus edit lever, footage counter, and 20-0-20 record level indica-

20-0-20 record level indicator. Also mic, bridge, and external speaker jacks, and built-in speaker. Monaural use only; 100-10000 Hz response @ 7½ ips. Mic input impedance: 500K ohms. With tubes 12AU7, 12AX7, 6X4, 6BQ5, 6HU6, & 7025. Requires 115 VAC 60 Hz. 13½x12½x7; 32 lbs sh. Units checked for basic playback/record; may need further adjustments. Mic and reels not

AN/ULT-T2 (15X12) X-BAND INTERFERENCE TRAINER, a low power transmitter in the 8500-9600 Mhz range designed to train radar operators in anti-jamming techniques. Unit can be manually tuned and modu-



manually tuned and modulated by a sine or square wave, pulse, noise, or modulation from an external source. Has controls for CW, 5-16 Mhz/sec sweep, 250-500-1100 Mhz sweep sector, percent modulation, and pulse width 1-5 usec. Frequency modulation 15 Hz-15 Khz variable and fixed 50 or 100 Khz. Audio output impedance 600 ohms. Designed to be used within 50 feet of radar. Uses 2K45 klystron. Requires 115 VAC 50-400 Hz; with antenna horn and transit case. 131x194x194, 110 lbs sh wt. Used, 39-50 \$80.



AN/ULT-T4 (15X18) INTERFER-ENCE TRAINER, similar to ULT-T2 except covers L-Band (1220-1350 Mhz) and uses 2C36 klystron. With antenna horn and transit case. 172x23x182, 100 1bs sh. Used, 105-10 \$85.



ALARM BELL SIZE:45x45x25 WT: ILB #561-NEW \$1.95



BC-1361 SWITCH BOX w/bullseye light, 2 water-proof conn 4PST switch, SPST mom. sw., and two binding posts. 62x5x24, 2 1b. \$3.



plate, mixer grid, RF prid, RF prid, RF prid, lst osc-quadrupler, lst osc-amp, & cathode follower input.
Tubes 2/5654, 5670, 5725; requires 6.3-12.6-108-250 VDC. 32x32x102, 5 lbs. W/schem. #RF100-RA18 NEW \$10.



C-87/ART-13 PILOT CONTROL f/ART-13 transceiver; has two 12" dia ceramic rotary switch (one 1-deck 12-

position; other 2-deck 5 pole 3-pos), mic jack, pilot light, and 2 knobs. 52r6x3, 2 lb. \$4.00 C-87 w/o switches, knob \$1

SA-3 IMPACT SWITCH SPST, 10 a. NORM. OPEN, USED IN AIR-CRAFT TO TURN ON DETONATOR CIRCUIT WHEN CRASH OCCURS 10 "G" OF FORCE. HORIZONTAL PLANE. \$1.95 EA.

111

190



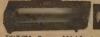
LS-230 INTERCOMM UNICATION STAT-NICATION STAT-ION CONTROL BX Contains 3 Rot ary 3 Position LEVER CONT. SW LEVER SW. DP DT CENTER OFF,

| LEVER SW. SPST | SIDE, OTHERSIDE SPST MOM. & CENTE OFF. 3 LITE IND. PHONE & MIKE JACK & | MIN. TRANSFOR 50 TO 500 OHM. SIZE: 7x5x22; WT:3 LBS. PRICE: \$5.95

DELLY LINES



DELAY LINE ASSEMBLY with three ESC 71-26-1 continu-ously variable DL's, each with 0.5 usec delay, 750 with 0.5 usec delay, 750 impedance, and screwdriver adjust control. Also five HNC connections. 101x22x21 3 lbs. #5915-650-3805\$12.95



PRISM PRISM from M4Al tank peri-

scope. $5\frac{1}{4}x1\frac{1}{4}$ view area. Peak around corners or use to direct light. 0/A $6\frac{1}{4}x2\frac{1}{2}$ x2, 2 lbs. Used \$2.75 2/\$5.



RIGHT ANGLE DRIVE vernier control, 12* die. diel, w/ look & coupling f/1* shf 3-hole mtg. #TU-10RA, \$2.

ARC-S SOXES

Filters



BC-450 RECEIVER CONTROL f/ tuning upto 3 receivers. W/dials 190-550 Khz, 3-6 Mhz, & 6-9.1 Mhz; CW-off-MCW switches, volume controls, and phone jacks. 92x52x3, 3 lbs. Unused \$8.

BC-496 DUAL RECEIVER CONTROL for SCR-274/ARC-5 receivers; tuning dials for 3-6 and 6-9.1 MG, volume, etc. 2 lbs sh. Unused \$7.95 BC-451 TRANSMITTER CONTROL, for one to four Command xmitters; built-in key, mode, mic jack. Unused \$5.

from R-19/ ARC 118-148 Mhz recei-ver. Consists ver. Consists
of 4-gang capacitor with geared
drive for MC-215 spline, BNC RF connection, and tubes 3/9003 and 1/9002. Silver-plated chassis. 4 3x3, 3 lbs. Unused. ARC #15176 \$12.95 chassis. 42x

MAR CONTROL BOX, contains 3-SPST two switches, two phone & mic jacks (all waterproof) and one dual pot w/dial knob. 5\(\frac{1}{2}\)x5\(\frac{1}{2}\)x3, 3 lbs sh. #CMX-23429, unused, \$2.00

-DOLLAR DAZE- CONTROL BOX w/DPDT, DPST, & SPST switches and 3 pilot lights w/bulbs. \$1.

C-868/ARC-27 CHANNEL SEL-ECTOR for ARC-27 trans



arc-27 trans-ceiver; sel-ects 18 channels plus guard channel. Also volume, function sw, 2 pilot lights 6x35x35, 3 lbs. Used, \$9.00 19-pin conn f/C-868, \$3.00



MAGNET 7" 1 7" long, 3" high, 2½" wd. 6-3/4 lbs. Seems to

have good power. \$7.50



SB-329/AR SIGNAL DIS-TRIBUTION BOX, p/o ARC-44-45

ARC-44-45
sets; has 4-position selector, vol-control, 2 pilot
lights w/327 lemps, and 5
mini-toggle switches (4/SPDT, 1/DPDT). 2½752742, 4
lbs sh. Unused, \$7.95
SA-474/AR SWITCH BOX has
mini-toggles 4/DPDT, 1/DPST
and 2 pilot lights w/327
lamps. 2½x5½x22. Unused \$6.

SB-328/AR CHANfor ARC-45; 12-pos channel nel select, tone, volume, 2-pilot light w/327 lamps. 2:x52x42, 2 lbs. Unused \$10. Used \$6. SB-327 CHANNEL SELECTOR for ARC-44 R-T, used \$15.

HAS MANY ITEMS YOU CAN USE: 12 "tune to max" 300 ua meter; 4-band bandswite & dial assy; 5-position rotary sw with 1-pos mo

momentary; spin crank for tuning with 10w/3-gangs; five 327 lamps; Loop switch (I or R momen-tary); SPST toggle sw; oth-er parts. Originally tuned R101/ARN-6 (p 4). May have broken wafer switch; 6 lbs #C423/ARN-6 used \$4; 2/\$7.

ADJUSTO PROFILE TEMPLATE

From the good old days.
A quality profile gauge with cast frame, 6" brass strips that allow very fine resolution of profile from .007 thick by .07 inch wide. Used in woodworking, metal or wherever exact contour shapes are needed. Shpg 31t Order--Adjusto Template\$10

******** *MAKE * *MACY'S* *PHONE * RM-52 Remote Control used and intercom set. Has transformer,



CRV-23253 TUNING CONTROL, p/o early WW-2 ARB set; four ranges covering 190 Khz-9.1 Mhz. Fits MC-124 spline lbs sh. Unused \$6.



#RL-24C, dual inter-

com control, volume, 2/PL68 plugs. 9x5x32, 4 lbs. \$7.95

BA-398/ PRC-25 BATTERY

PACK, consists of 72/1.5 VDC mer-cury cells wired to pro-duce 2.5 V 400 ma and 12 to 15 VDC 1.4 A in cloth bag. 1977 date codes; un-used but LV output weak. 6 lbs sh. \$4.95 ea 2/\$8. * * * * * * * * * * * *

NICAD BATTERY, rechargea-ble 4.8 VDC 500 ma; lax1-3/8*. #4/500DKZ, NEW, \$4.

SAFARIMAT



RUBBER #4 #6 #10 #12 #24 #35 MOUNTING 10 .60 .65 1.00 1.25

M-300 ADAFTER

M-399 ALTON-MENT ADAPTER for BC-659 transceiver; allows the changing of crystals as well as the alignment of the set without the use of an external meter. Mounts inside the EC-659. 2 lbs. \$5.00 M-394 ADAPTER f/EC-620, \$5.

VO-6 OSCILLATOR CRYSTAL CONTROL 4.3 MHZ; VARIA-BLE 0-100 U-V OUTPUT. USED WITH VARIOUS

MHZ IF. W/ITA TUBE, REQUIRES 1.5 AND 67.5 VDC. 5x5x32, 5 LBS. USED \$8

I-210 ALIGNMENT
INDICATOR USED
WITH VO-6. HAS
6E5 EYE TUBE FOR INDICATION
ALSO CHECKS RESISTANCE TO
50K OHMS AND 0-4.5-6-30 V.
REQUIRES 4.5 or 7.5 VDC AND
60, 90, or 150 VDC.
52x42x2; 3 LBS. SH. USED \$9

ME-40 MANUAL f/above, \$5.





4 to 28 VDC, 2900 Hz cont., 64-78 db. Snap-lock fit into 1.063" dia holo; 2x1-5/6 dia. #SNP-428, NEW, 34.95

MALLORY INTRUSION ALARM, hang on door knob and set sensi-tivity. Sonalert sounds when outside door touched. Will not work on steel doors; 9 VDC requir #DRS-DC, NEW, \$7.95

RECHARGEABLE



GLOBE 6 VDC 12
AMP HR rechargable gel-cell;
slip terminals,
sealed plastic
case. 5½x4½x2½
6 lbs sh. NEW
#GC6120 %16.95

2 for \$30. ELPOWER 12 VDC 4.0 AMP HR gel cell; sealed plastic case. 5x32x2-5/8, 5 lbs si #EP1240 NEW \$14.95 2/\$26. lbs sh. 2/\$26.

GATES LEAD-ACID BATTERY PACK, six 2 VDC 5 amp cells wired to produce 12 VDC 5 A: rechargeable. Each cell 3x12 dia, 7 lbs. #0800-0041, \$16. 2/\$28.00 GATES 12 V 2.5 AH LEAD ACID 8x2xx12. #0810-0016 used #8 NICAD SUB-"C" CHILS, 2.5 V 800 me per pair; each 1-1/8 x1" dia. #NC-SC-PR \$2.50/pr BB-648 NICAD, 1.2 V 18 AH @ 1 hr rate; 52x3-1/8x1-5/8, 3 lbs. Used-take charge, \$3

NOISE-VOICE ALTIVATED TRIBBENING

VOLTS AND A OF THE

VOLTAGE THE RE-LAY CAN BE ACT-IVATED BY NOISE DEVICE OR VOICE. UNIT CONSISTS OF CRYSTAL MIC. TRANSISTOR, SCE 2 CAP. 3 RES. AND A TRIMME POT. FOR ADJUSTING SENSITI-VITY. W/SCHEMATIC/LESS BATT AND RELAY. SIZE: 18X1; 2 0Z.

GIT COUNTER electrically

LEE#5355, \$1.00 EACH.

resettable;
60 impulse/sec count coil and reset coil both 24 of DC 83 ohms. 1-7/8x15/16 x41; #RG266, NEW, \$8.95

KEYBOARD



BUSINESS-EACH SWITCH REMOVEABLE: CONTACTS AC-

CESSIBLE. SP4P CESSIBLE. SP4P SLIDE SWITCH USED, Exc. NCR#0092, \$3.95



- KEYBOARD

I6 KEY KEYBOARD
BY MICRO SWITCH
CONTACTS RATED
12V 6MA TO SINGLE COMMON BUS.
BUTTONS .5x.5x.2. 0 THRU 9
RESET, DELETE, CARD NO.,
\$ AMT, PROCESS, FCT. SIZE
3x3x1 #16NW3-44 NEW \$4.95

UNIPULSER



DURANT UNI-PULSER II COUNTER, e-lectromechanical type requires 24 requires VDC pulse; 36 Vrms half

wave AC for reset. Has auxilliary low current contacts for remote indication or control. lixe 142 per counter. Unused w/PCB sockets. Bank of three, \$6.00

VIBRATORS

VIBRATORS removed f/equip.
VB-1 & -7: 6 V. for PP-308,
PE-97, -117, -237. \$3.95
VB-12 (6 V.) or VB-13 (12v)
for PE-120, \$2.95
3H6690-16, f/PP-112, \$2.95
Vibrators VS-3, G534, VE-8,
VB-9 as available, \$2 ea.



BB-51 BAT-TERY 6 V. 2.75 hours thru 30.1 lead cells. Dry charge lax3ex7/8, 3 oz. \$1.50

BB-52, same as BB-51 except 36 V. 3 A. thru 1200 ohms. \$1.00 ea. BB-208 BATTERY PACK, contains BB-51, 3/BB-52, \$3.

NULLI TO ATTEMP

PUSH TO TEST INDICATORS WITH MARKINGS ALSO HAVE CLEAR & AMBER LENSES

KORRY MFG., ALL UNUSED. KORRY 260 PUSH-TO-TEST IN DICATORS, DOUBLE LAMPHOLDER WITH MINIATURE BAYONET BASES. 12"WX2"HX22"D. NEW. CHOOSE FROM THESE LENS IN-SCRIPTIONS:

PHASE B POWER, 28 VDC. OR 24 VOLTS DC. \$1 EA, 3/\$2

KORRY 260 indicators with KORRY 260 indicators with rocket launch-related inscriptions: UNLOCK, TESTING, COMPONENTS TEST POWER ON, HEATER 1-2-3, CENTER, IN OVERFLOW, IN LOWER LEVEL, IN UPPER LEVEL, 100% LIQ. OXY, LIQ. OXYGEN FINE, FUEL TANK PRESSURIZED, COOLANT FIIL, 40 C THERMO-

STAT, LOX THROT VALAVE HEATER. Price: 75¢ ea or 4 for \$2. ASSORTMENT OF ROCKET LAUNCH INDICATORS, NO CHOICE,

KORRY 136 PUSH-TO-TEST IN-DICATORS, SINGLE LAMPHOLDER WITH MINIATURE BAYONET BASE \$"WX2"HX22"D. INSCRIPTIONS: STANDBY:

LOW: MALF. 65¢ 2/\$1. KORRY 103 INDICATOR, PUSH-ON RED PLASTIC CAP; PLAS-ON RED PLASTIC CAP; PLASTIC BODY. 5/8" SINGLE HOLE MOUNT. #5167, 50¢ EA. 3/\$1.



LAMP HOLDERS FLAT TOP LENSE 3/8 DEEP,

White Lens numbered I To 9
Yellow ("MAX"), Red, AMBER
AND GREEN. SPECIFY.
#6210-617-0934, 39¢ EA.
#327 LAMP FOR ABOVE, 39¢ AMBER.

NEON CYLINDRICAL TYPE LITE ELDEMA V W/RES. #2685 28v .04a 3/8x11" 1/4x7/8

OBLONG SLIP IN TYPE NEON 1/2x1-3/8" 125v. #3100 USED ALL ABOVE 3 FOR \$1.00

STK # TYPE V. A. #14 flashlight 2,47 .3

1004 auto type 12 NE-48/991 neon 115 NE-51 neon 115



SUB-MINIATURE NEON PILOT LIGHT ASSEMBLY. FLUTED 5/16" DIA. CLEAR JEWEL. BASE IS FEMALE PART FOR BASE IS THREE PRONG PLUG WITH 1/16"
DIA. HOLES IN ISOSCELES TRI
ANGLE PATTERN. MOUNTS IN
3/8" HOLE. 0" TO 3/8" SURFACE CLEARANCE. - 3/8"LONG. INCLUDES BULB. USED. 110v. PILO07 \$.25 5/\$1.00

SINGLE TERMINAL AND CONTACT SUB-MINIATURE DIMMER PILOT VARIES SIZE TO COMPLETE DARKNESS. REQUIESS T-18 BULB. 5/16" DIA. SMOOTH RED JEWEL. MOUNTS IN 7/16" HOLE. | 3/8" LONG. LESS HOLE. | 3/8" L BULB. NEW. 6210-643-4087 PILOT LIGHT WITH SINGLE
CONTACT, MINIATURE BAYONET
BASE. CLEAR STOVEPIPE,
SMOOTH 5/8" DIA. JEWEL.
MOUNTS IN 11/16" HOLE. SURFACE CLEARANCE IS 0" TO 3/8
2 1/8" LONG. LESS BULB.
USED.
PILOOS \$ 39 PIL008

Pilot light with single contact candelabra bayonet base. I" dia red-faceted jewel. Mounts in I" hole with surface clear ance of O" to 2"; 22" lg. Less bulb.

PILOT LIGHT WITH SINGLE CONTACT, MINIATURE BAYONET BASE. 2" DIA. SMOOTH. GREEN JEWEL. MOUNTS IN BASE. 2" DIA. SMOOTH.
GREEN JEWEL. MOUNTS IN
5/8" HOLE WITH A SURFACE
CLEARANCE OF O" TO 2".
2 1/16" LONG. LESS BULB, PILOO4

PILOT LICHT JEWELS, 1 dia for 1 dia threaded assy. Asst colors. Series-F 6/\$1

WHITE SWITCHBOARD JEWELS, 3/8" dia. #4C1971, 10/\$1.

Per 10

\$2.00 2.50

1.00

3.00

1.00

1.50

1.50

12.00

LAMPS

BULB EA

G-6 B-6

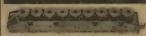
B-6

T-4\frac{1}{2} \dots \do

.25

GRIMES LAMP ASSY. #4725-24 WITH 327 GRAIN/WHEAT

500 KHT TILTER



COLLINS 500 KHZ FILTER AS-SEMBLY consisting of nine adjustable coils and associated capacitors on axlax6 enclosed chassis. Uses MB style miniature connector. Units are checked, but may need alignment. Collins part #542-4777-004, \$5.00 Above, need repair, 2/\$4.00

FERRITE POT CORE INDUCTORS, PC mount; 7/8x2* dia. NEW. 123-177 mH, #NV243, \$1.50 600 mH, #404-3-2, \$1.50 TORROIDAL COILS, 5/16x1 dia 150 mH, #403-1-1, 85¢ ea.

TELEPHONE PICK UP COIL used in modem data coupler; no specs. 5/8x12 dia #403-4 \$1



COMMAND XMIT-TER ANTENNA COIL for 5.3-9.1 Mhz range;

around 2" dia X 3" ceramie form: No contacts or mount brackets. #6035 \$6.

#6035-MB, as above but with mount brackets \$7.50

NATIONAL NC-100 ASC CW OSC tuning coil, 456 Khz, \$3. BC-348Q RECEIVER IF COILS 1st IF 9A1952 #147 \$3.00 2nd IF 9A1953 #148 3.00 BUD TRANSMITTING PLUG-IN COILS on 5-pin ceramic base #3C804 40 meters \$1.50

COLLINS MECHANICAL FILTERS Used, reparable @ \$3 each: #526-9311-00 F300-25 #526-9312-00 F300-Z4 Used-reparable, \$8.00: #526-9310-00 F455-Q3

#526-8088-00, 21.608 Mhz (5895-980-9828) NEW \$20 #526-9369-00, F64-27; (5915-724-6633) NEW \$22



COLLINS CHANNEL MODEM CIR-CUIT BOARDS each with two 6"xl" dia mechanical filters plus other parts such ters plus other parts stens as transformers, chokes, pots, etc. 9½x6, 2 lb-Used: #522-5247 w/two F64-Z8A (526-5249) filters, ¾6.95 #522-5243 w/two F100-Z8B (526-9463) filters, \$7.50



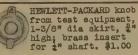
TCS SPIN KNOB & CRANK 1-5/8" dia fluted knob w/7/8" crank extension; 2" high handle. \$1.50

LUXITROL KNOB, 2-3/8" dia. w/pointer; fits 3/8" dia. shaft, \$1.50

#SP-SG15 22 dia SPIN KNOB w/2"h metal spin handle; brass insert f/2" shaft \$3.



7 dia. WHEEL-TYPE CONTROL, fits 3/4" dia. shaft. 2 lbs. W/pointer \$4.95 Without, \$3.95

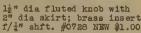




1-5/8" DIA. FLUTED KNOB W/2" SKIRT; FITS \$" SHAFT. URC# S-649, \$1.25 NEW

1-1/8" dia X 1-1/8"H knob with provision for attach-ing skirt; brass insert for 1" shaft. #KNB030 \$.50

MODERN GREY KNOB w/fine-ribbed side. 1½ dia X 9/16 H. F/½ dia sh. #7577 NEW \$1.



t" DIA. FLUTED KNOB WITH BRASS INSERT FOR \$" SHAF KNBNOO8 \$.25 SHAFT.

ALL THE ABOVE KNOBS ARE OF SET SCREW TYPE.

KNOBS PIN

2" DIA. METAL FLUTED SPIN KNOB FOR 5/32" SHAFT. KNBNO09 \$.79 SHAFT. 21" DIA. SPIN KNOB. METAL. TAKES 3/16" SHAFT. #8089 NEW \$2.00

MAKE ANY FLAT KNOB A SPIN FASTEN TO YOUR KNOB, WITH SPIN GRIPPER#2Z5816-3 \$1.00

1-5/8" DIA. METAL SPIN KNOB F/2" SHAFT. URC#KNO2, \$1.50 12" DIA. FLUTEU KNOB W/13" SKIRT; BRASS INSERT FOR 3/8" SHAFT. URC#KN04, \$.50 1-5/8" DIA. FLUTED KNOB W/ 2" SKIRT; BRASS INSERT FOR 3/8" SHAFT. URC#KNO3, \$.75

Brown 1" dia x 1 high knob for 1" shft. #KNBO25, 2/25¢

HAMMARLUND DIAL #31227-3 21" silver skirt marked 10 to 0; 1-5/8" dia knurled knob. #E9821, NEW, \$1.50

MATCHED KNOBS, rounded edge w/4 sets of 4 hash ridges. Looks like old Hammarlund. #E5168 22" \$3 #E5570 12" \$2

HALLICRAFTERS with big la" dia; arrow & grip bar. #H81014 new \$1.50

BAR TYPE KNOBS

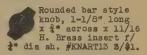
BAR TYPE BAKELITE KNOB 1" SHAFT. 12"x2"x5/8". SET SCREW TYPE. KNBN012 \$.25

BAR TYPE BAKELITE KNOB FOR \$" SHAFT WHICH MUST BE TAPED FOR SET SCREW. | 12" X2" X5/8". | KNBNO13 - \$.25

RECTANGULAR BAR TYPE BAKE-LITE KNOB 12"x2"x5/8". WITH BRASS INSERT FOR 22 SHAFT. SET SCREW TYPE. KNBNO14 \$.25

Pointer knob with brass insert for i shaft; lixlri. #KNBNQ26 25¢ ea

Bartype bakelite knob with pointer. For 1/8° shaft; vertical set screw. 12° x5/8" x2°. KNBNO16 4/\$1.00



AICO-KNOB, 1" dia x 5/8" high modern style fluted knob with 5/8" dia chrome center trim; brass insert for 1 shaft. NEW 3/\$1. 1-5/8" dia plastic knob with 2½" dia aluminum skirt calibrated 0 to 10. Brass insert for ½" dia shaft. #9414 NEW \$.50 ea

1" dia plastic knob with lim dia skirt calibrated alphabetically A-B-,,,Y-Z. Aluminum skirt; f/im shaft. #5312 Mam \$.50 ea

3/4" RIBBED KNOB 7/8" DEEP |" SKIRT F/2" SHAFT DULL BLK.KNB7820 35€

5/8"x3/4" same as above Bright blk.KNB1261 20¢

1" dia. x 11/16" high knob, Ribbed style; Insert re-sessed 2" from base for flush fit. KNE2279, 30¢ ea.

It" KNOB MARKED "INCREASED OUTPUT". THOLE WITH SET SCREW. THICK, METAL. KNBN023 \$.25

2" TUNING KNOB black w/chrome-finish trim, Metal insert f/1" d shft. #ROB-B/C \$1.25





#511

1004

#24-68M

医复体

BULB. 6220-333-5827 59¢ EA. 2 FOR \$1

RF LINE FILTERS, unused. SIRMANS #B84104K, 3 amp 115/230 VAC 60 Hz; plug & lead connect. l2x22x2, 1 lb. \$1.

#410-3, 2x5 amps 125/250 VAC 50-400 Hz; four solder terminals. 2x22x11, 1 lb. \$1.25 ea. Sprague #JN10-2296Al, 2x12 amp 250 VaC 60 Hz; solder terminals. 22x12x2, 2 lbs. \$3.95

MINIATURE

14 .08 min flanged T-12 .35 grain of wheat 28 v.0.04 a T-12 .39

8 .25 min sc 12 .94 DC bay 15 .25 DC bay 15 .25 min bay

.15 min bay

.68 DC bay

25 W Standard lightbulb for 12 VDC 25

6.3

MARINE TYPE 600 WATT 28 VOLT GE Q600 PAR 56/I SCREW TERMINALS PRICE: \$6.00 EA. WRITE FOR 100 LOT

24

BASE

.3 cand so G-3

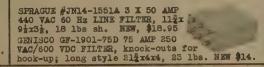
min sc

can so

Sprague #JN17-2028A, 300 amps 100 VDC; lug terminals, 72x3 mtg plate. 7 lbs. \$12.95 #537-6615, 55 amps 30 VDC; two stud terminals. 22x5x2, 3 lbs sh wt. \$2.95

SCR HEATSINK ASTY

SILICON RECTIFIER BRIDGE, single phase half-wave; GE #C14114CE5 or equivalent. Rating approx 500 V 35 amps. 7x61x5, 4 lbs sh. #KS-1957611, used, \$5.795 \$6.95





ANDREWS TYPE 79R FITTING for 5" dia cear H9 or RG-367/U; 50 chm, 6-1/8" dia EIA flange. 19 lbs sh. Unused w/kit,\$260 \$60.



ADJUSTABLE ALUMINUM SHOCK-MOUNT WITH FOUR 12-3 LBS. SHOCKMOUNTS. PERFECT FOR SMALL POWER SUPPLY, AMPLI-FIER OR OTHER GEAR. FITS "DEEP UNIT: 2" HIGH.



Individual coils for HRO receiver coil set plug-ins.

Unused, \$2.50 ea; 4/38.00 50-100:

50-100: E112, E115/B143 E114/R144 100-200: E109/B139 E110 E111 175-400: Bl12, Bl13 900-2000:B120

2-4 Mhz: Bl23 4-7 ": Bl27, Bl28, Bl29 7-14 ": Bl30, Bl31 14-30 Mhz:E80, E87

BC-610 XMITTER PLUG-IN TUNING UNITS, 4 lbs.

MHZ Price WVL \$7.50 5 WVL 7.50 C-387D 2-3.5 3.5-4.5 WVL 7.50 4.5-5.7 WVL 6.00 5.7-8.0 WVL 8.00 C-388C C-389C C-447B 8-11.0 WVL C-449B 14-18 WVL 6.00 6.00 TU-47 (2.0-2.5 Mhz), TU-48 (2.5-3.2), TU-49 (3.2-4.0)
TU-50 (4-5), \$7.50 each
TU-52 (6.35-8.0 Mhz) \$7.50 TU-54 (12-18 Mhz), \$12.00

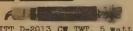


VACUUM CAPACITOR by Jennings with connectors. Unused.
3.0mmf 15kv "Y" \$2.75 Jennings or equal mfg.used. 12mmf 20kv "VC" \$10.00 50mmf 20 KV *VC* \$12.00

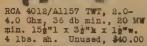
TRAVELING WAVE TUBE



mmI 7640 TWT, similar to Hughes 313H; 2.0-4.0 Ghz, 1 KW output, 30 db. 16mx3% x5; 20 lbs. sh. Sold as an experimenter's item only; not guaranteed. \$17.50



ITT D-2013 CW TWT, 5 watts 33 db gain, 8.0-9.6 Ghz; 6.3 v. heater. 12x1 dia. 3 lbs. sh. Unused, \$45.00



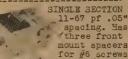


transmitter. #C-222/T-195, 25-485 pf one sec.; 23-437 pf the other. 0.03* air gap. With gears 1½" dia. and 5/6* d. 4½x3x4½ overall. \$4.95

#C-221/T-195, 13.5-77.8 pf one section; 17-99.6 pf the other. 0.094" air gap. 2"x ½" dia. sheft. 5½x1½x3½ overall, 2 lbs sh. \$3.95

20-400 PF 0.02 gap. insulation, sil-ver plate. 5/8x4" dia shaft. 4x1-5/8 x12. #C-1003/T-195, \$4.95 TCS VARIABLE CAPACITOR, 2 sec. 10-360 MMF, ONE SECTIO-360 MMF, 3 BAND CALI-

SIZE: 7x32x32; WT: 10 LBs. #881 \$3.95 USED



mount spacers for #6 screws Shaft 3/8x2 dia; o/a 32x 1-7/8x22. #3D9067VEB \$3.95 RBF-3-14A164, 10-40mmf gap 0.04". 2Kv.3xx22x2 \$2.95



HAMMARTIND VAR. CAPACITOR 20-90 pr 0.05* spacing. Sil-ver-plated, 0.04* thick

plates. Right angle worm and split gear drive. Shaft 10 x 11 dia. 42x312x32 #446-6571 39.95

5-BANS HOR PF



5-GANG 13-402 pf/section w/removable gearhead for spline tuning or 1° dia chaft. 10x4x22, 2 lbs sh. #Cll1/ARN-6, \$5.95; 2/\$10

SINGLE SECTION 14-365 pf

0.03" gap. Shaft 1-5/8x1" dia; o/a 4-5/8x1-5/8x22, 2 lbs. #3D9365V-2, \$4.95 THREE GANG, 15-85 pf/gang 0.03" gap; 3½x1-5/8x4%. #074-049 unused \$4.95
3-GANG, 15-160 pf/section, 0.02 air gap; 4" dia shaft 1½x4xx1%. #3TH160, \$3.95

BC-624 RECEIVER
R.F. TUNER ASSY
100 - 156 MHZ
A.M. W/VARIABLE CAP., COILS, TUBE SOCKETS. OSC. SEC.P/O SCR-522 5x5x5; wt: 7LBS 5x5x5; WT: 7LBS 2ZKII[50 USED \$3.95/N \$5.95

3-GANG, 2/25-500 pf & 20-180 pf; 5/8x2" dia shaft. 44x1 x1; #ASP4741, \$4.95 3-JANG, 2 sec 20-365 pf, 1-sec 17-175pf; \$x\$* dia shft. 3\$x1\$x1\$; #5740, \$3.

2-GANG 6-16 pf/gang 0.05 gap. Silver-plated with brass gears; p/o TS-497 sig generator. 7/8x5/16* dia shaft; o/a 4x2-3/8x3. #3330-313, unused, \$5.95

TUNING CAPACI-TOR F/RT-176/ PRC-10, 38 TO 54.9 Mmz; 5-GANG, 5-33 PF/ GANG, 5-33 PF/ GIA. GEARS; 3/16" DIA SHFT. 12x1-5/8x4, USED, \$4.95

BROADBAND TUNER 14-50 MHz 10-150mmf var capacitor mechanically coupled to iron slug in a coil which moves as the capacitor is various other components. 32x2x3 #RT-45 \$1.95

TRANS. CAPS

Dual 4-30 mmf 1000 vDc 12x 12x2, shaft 2x2 p/o BC-640 CARDWELL 430/IM REM \$2.95

Dual 5-25 MMF 2000 VDC 12x 12x42 SHAFT 2x2 P/O BC-640 CARDWELL 525/2M REM \$3.95

Dual 4-20 MMF 2000 VDC 12x 12x3 SHAFT 2x2 P/O BC-640 CARDWELL 420/2M REM \$3.95

Single 12-65 pf, 0.06" gap; 3/8xx" dia shaft, o/a 3\frac{1}{2}x2\frac{1}{2}. #CARD-427B NEW \\$5.

BC-624/522 Receiver, 3 gang 6-36 yer, 3

Single 7-26.3 pf, 0.06* air gap; shaft 2x2 dia, o/a 2x2x12. #C227/T235, \$2.95

Dual 6-22 MMF | 500 vDc | x|2 x23 shaft 3/16x3 Teleradio 622/15M New \$1.95

TRIMMER 9-143 pf silver-plated; standard/SCD ad-just. 1x1 shaft; o/a 21x1 x11. #C228/T235, \$2.50

#P-7761569, 14-62 pf, 1xi" dia shft. 21x22x41, \$3.95 #T-7660443-8, 8-28 pf, 5/8 xi" dia shaft. Overall 12x22x3, 2 lbs. \$3.95

1-GANG 15-160 pf, 0.03" gap; shaft $1\frac{1}{2}x_4^{\frac{1}{4}}$ " dia, o/a $1\frac{1}{4}x_2^{\frac{1}{4}}x_1^{\frac{1}{2}}$. #1TH160, \$2.50 JOHNSON "M" SERIES, 3/16" dia slotted shafts; 0/a 1-5/8x2x5/8. Used: #160-110/20M11, 2.7-19.6 pf; 21 plates, \$1.10 #160-130/30M8, 3 to 32 pf; 28 plates, \$1.25

PRE-SELECTOR UNIT ASST PART OF R-48 Rec. 230-250 MHz.

consists of RF MIXER & OSCIL.

I USING DAG5-2 EA. 9002-1

EA. TUBES (LESS TUBES.) FOR USE WITH 30 MC 1.F.

SIZE: 6x5 & x4; 5 LBS. USED \$5



BC-610 TRANSMITTER

FREQ. RANGE 8-12 MHZ.CONT-AINS VAR. CAPACITORS WITH SHAFTS 140 MMFD, 190 MMFD. 2/CERAMIC CAP. //MICA.CAP. 4/R.F. COILS,2/RES. I/DPDT switch, dial, and two knobs Rear plugs are broken. 2x8s x4s, 4 lbs sh. Used, \$3.95

5-25 PF CAPACITOR, worm gear & ceramic insulated shaft and stators.

Rotor plates on common met-al shaft; .03" gap. Rating made with two sections in made with two sections in series. May be modified into two 10-50 pf sections. Gear shaft: 1*x1/6*d. Other 5/8*x½*d. 0/A 4½x2x½. Silver-plated. #710-4608 \$6.95 RECEIVING TYPE CAPACITORS FOR AM-FM-AUDIO-OSCILLATOR USE WITH SHAFTS.

#48842 DUAL 12-90 MMF & 15-140 MMF SIZE |x|x \$1.00 #66972 DUAL 9-50 MMF & 1-100 MMF, SIZE |X|X \$1.00

#330V020-H02 DUAL 10-90 & 14-140 MMF | 12x12x1 \$1.25

#074-050J-2, 8-20 pf. 2x1 shaft. \$1.25 shaft.

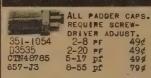
Dual 5-15mmf, ceramic,w/fri-ction gear to hold setting. 0.04"spacing. 2gxl2x1-7/8 in 1xin dia shaft. coil& gear removeable. #358-3164 \$1.95

#KS21146L1, 3 GANG, 7-60 PF/SEC. 0.03" GAP. 0/A 52x12x12, \$3.95

2.3 to 14 pf, $\frac{1}{2}$ x3/16" dia shaft. #228-6085, \$1.25

3D9200V-19, 4-gang 14-200 pf/gang; txt dia shaft, o/6x2tx3t. p/o R174 used \$5. SINGLE 10-100 pf, 0.02*
gap; kwi" dia shaft, o/a
2½x1½x1½. #3D9100V \$1.95

AIR PADDER CAP



3D9011V-7 5-14 pf silver-plated Hammarlund, 899 89¢

#CT1C100, 10-120 pf; screw driver adj; 2x12x1, \$1.25 #C653/R174, 2-11 pf screw-driver ad; %x5x2, \$.50 #3D9006V-7 DIFFERENTIAL, 3-6 pf, .045" GAP; 12x1x2, 12x2" D. SHAFT. NEW, \$1.95

20-260 PF 0.02" air gap. Tap-pered plates for linear fre-

quency; precision worm and split right-angle gear drive. Double shaft 4" 1g X 3/16" dia each end. 0/a 5x3x21. #3D9270V-4 \$12.95

COMMAND RECEIVER VARIABLE
CAPACITORS,
3-GANG, TRIMMERS & GEARS.
21x3x44; 3 LB.

#6558, 62 PF, 6-9 MHZ, \$4.



TRANSMATCH ASSY ROTARY INDUCT-or,16 TURNS,.5-4,15 MICRO-HY. W/VARIABLE CAP. 5-50 MMF. 2000V

RE-MOVED FROM EQUIP. DESIGN FOR 14-50 MHz. SIZE: 22x5x54 LBS. #88M502 \$6.95



PRECISION TANK TUNE 25-320 pf w/right

worm gear reduction tuning. 0.03° spacing; 1"x2°dia shft, o/a 42x22x32. Remove f/equip. #C9/SG-15, \$8.00

1020-2520 MHZ



PRESELECTOR, two separate cavities having 21 Mhz band width and 3 db insert loss @ 1715 Mhz. 1N21B crystal mixer 120 Mhz output from 1800 05500 Mhz dejection 1820-2520 Mhz injection.
"C* and "ENC" connect. 91x
x51x31 4 1b #PRE/TRC29 \$20.



#2SLT/TRC29 2-SLUG TUNER, provides isolation, coupl-ing, and impedance match-ing between 50 ohm klystrom output and P-A input. Two slug adjust. 10x12x12 38. UG-573 C-conn. Used, \$1.25

#3CPR/TRC29 TRIPLE COUPLER which fed P-A. 36 db and 65 db RF outputs; DC output for P-A meter. 4 *C* connections and one lN21 connector. 5\frac{1}{2}x2\frac{1}{2}x1\frac{1}{2}\$9.95

AM & FM TUNERS

AM FREQUENCY 550 - 1600 FM FREQUENCY 88 - 108 Units have not been used - 1600 KC

F.M. TUNER WITH
1/ 12DT8 TUBE &
DIAL. SIZE 3x2x
URC#462 \$3.95
A.M. & F.M.TUNER
SAME AS ABOVE
URC#2H02 \$4.95



Spiral Inducto tuner 60-90mhz w/50pf parallel SEC.SILVER PL. 4월 TURNE. 3월x1월 #37695 RE-MOVED



LC-902 ANTENNA LU-90Z ANTENNA INPUT TANK FOR ITN-2A/APR-1 TUN-ING UNIT, FREQ. 76 TO 300 MHZ. WITH VARIABLE

CAPACITOR, COIL, AND 955
TUBE SOCKET. SIZE: 42x3
WT: 4 LBS. UNUSED \$5.95

LC-702 ANTENNA MIXER TANK FOR TN-3A/APR-I TUNING UNIT FREQ. 300 TO 1000 MHZ. WITH VARIABLE CAPACITOR AND COIL FREQ. 300 TO TUUL WITE.
VARIABLE CAPACITOR AND
SIZE: 22x32 UT: 3 Les.
PRICE: UNUSED \$3

LC-701 OSCILLATOR TANK FOR WITH VARIABLE CAP ACITOR AND COIL. SIZE: WT: 4 LBS. UNUSED \$4.95



RECEIVER STYLE VARIABLE CAP-ACITORS, 500 V spacing; 4 dia dia shaft. 32x12x12, unused.

3-gang, 25-500 pf/gang; geared tune. ASP3496 \$5.95

3-gang: 2/25-460 & 25-180 pf; #9776 \$4.75 D1; #9776
3-gang, 20-360, 20-280, &
20-110 pf; 2-speed drive

1 and 1/8 dia shaft.

#33V021H01, \$2.75
2-gang 25-460 & 35-200 pf,
3/8 dia shaft. 0/a 2½x
1½x2. #221657, \$2.00

#C2/R174, 5-42 pf trimmer; lx4"dia sh, lxxlxxlx \$1.25

#C44/R174, 5-55 pf trimmer; 5/8x2" shft, 12x1x12 \$1.50

INSULATORS



STAND-OFF, crows foot, 7"
Hxll D.Cast Base, 22 ctrs.
TOP CAST W/3/16"-20 screw
#5970-405-8992 \$4.00 SIMILAR, ABOVE 3"

FEED -THRU INSULATOR (FIG2 1/2" HOLE 7/8" DIA. W/NECK 3" LONG 30¢ 6" LONG 50¢ 8" LONG 60¢ STOCK NO. 1014-(LENGTH) SAME AS ABOVE OVAL TWIN-

PORCELAIN STAND-OFF INSULA-TORS, screw threaden. #P-4H-.75D, 8-24 thro, \$.50 #P-5H-.75D, 8-24 thro, .65 #P-6.75H-ID, IO-24 thr, .85



core. 1 lb sh, #STR-51 ...
IN-88 SPREADER INSULATOR, 22xx data; 1/16" hole, 4/31.
STK.#3G584 IN-84 FEED-THRU CONICAL SHAPE, 5" LG. 0/A; 2 CONICAL SHAPED I-1/8 LG. x12 DIA. AT BOTTOM, 1" AT// Z CONTRAL SHAPED 1-1/0 EG. XI& DIA. AT BOTTOM, 1" AT TOP, 1/4" DIA. ROD WITH 1/4 20 THREAD WITH NUTS/WASHERS \$LB. 25¢ EA. 5 FOR \$1.00

CLASS-BONDED MICALEX STRIPS 10"Lx1"Wx5/8"Th. Five holes .2" dia. #3G110-160, \$1.50

GE #K7102768Pl, same as above, 7-3/8*Lx32**Wx3/8*Th. Ten holes, \$3.00 ea.



| Insulator Threaded Brass | Each End For 1/4" screw. | #CLass 16U-2\frac{2}{2}x1\frac{1}{2}" \$2 | 16U-3\frac{2}{2}x2 " \$3

INSULATOR STANDOFF FEED-THRU, THREADED ONE END; 3/8" HOLE. ACE-3"HXI2" \$1.



STRAIN INSULATOR
wn 2½"x 1½" ½" HOLES EA
, opposite sides #3G100
ces: 79¢ EA. 4 FOR \$3.
Box of 200 \$125.00 BROWN PRICES:

ART-13 TRANSMITTER ANTENNA INSULATOR PANEL; WITH 32x4 OBLONG INSULATOR WITH TWO SPRING-BINDING POSTS.

A XI AND A XX CONICAL
INSULATORS WITH PUSH-TYPE BINDING POSTS. WT: | LB. COMPLETE ASSY. USED \$1.00

STAND-OFF INSULATOR
H-14,8-14, 4-4, 1/4"
BOLT REG. 12" MTG HOLE
#PP-1048 NO HARDWARE
3 FOR \$1.00

STAND-OFF S

STAND-OFF INSULATORS, CROWS FEET TYPE. BRASS AND PLATE BRASS BASES AND TERMINALS.



#B-H3-D1.25-ST3, BROWN CER-AMIC; M=2.25", TERM. CAP SIZE: 7/8x1-5/8" DIA. SHPG. WT: 2 LBS. \$2.75 #B-H4-DI.25-ST2, WHITE; M-2.25". TERM CAP: |X]-5/8" DIA. 3 LBS. \$3.25 #XW-H5-DI-ST, white; M-2.25
TERM CAP: #XI" DIA. \$3.00
#W-H5-DI.25-ST, white; M2.625". TERM CAP: 3/8X12"
DIA. 3 LBS. \$3.75
#B-H5-DI.25-CT, white: M2.25". TERM CAP: 1x1-5/8"
DIA. 3 LBS. \$4.00
#RI_HE_DI. 25-ST2. BLACK #BL-H6-DI.25-ST2, BLACK
PAINT ON BRASS; M-2.625"
TERM CAP: |\[\frac{1}{2}\tilde{1}\] DIA,
SHPG. WT: 4 LBS. \quad #B-H8-D1.25-ST2, brown; M-#B-H8-D1.25-ST2, brown; M-2.625*. Term cap lxl;**
dia; 3 lbs sh. \$5.50
#B-H7-D1.25-ST, BROWN; M-2.25*. TERM CAP; 5/8x1-5/8
SHPG. WT: 3 LBS. \$4.75
#W-H8-D1.75-NTTH, WHITE;
M-3.75**. No TERM CAP; THREADED. 6 LBS. \$5.25

FLEXIBLE COUPLING

CERAMIC FLEXIBLE COUPLING 1* dia x 2* for 1* dia shaft. #COUNOO3-2, 45¢ ea #COUNOO8; 2-5/8*dia x 2*, for 3/8* dia shft. 79¢ ea

#COUNCOS; 212 CERA-MIC COUPLING for 3/8 dia shaft. 69¢ ea

#COUN010; $3\frac{1}{8}$ * dia x $1\frac{1}{4}$ *, for 3/8* dia shft. \$1.25

AC LINE CORDS

3-COND. GROUNDED equipment cord, 8' #18 wire. Molded plug; black. #FW-3CG 31.25 #W14-3CG, as above but #14 wire; black. \$2.00 ea 3-COND w/business machine plug, fits most Hewlett-Packard equip. Without AC plug; 5½'. #HP-3CG \$1.50

TOGGLE SWITCHES, SPST cut-offs, 5/\$1.00 cut-offs,

PUSH SWITCHES, SPST norm-open, 5/\$1.00

SLIDE SWITCHES, 2PDT and SPDT, 5/\$1.00 and SPDT,

SPST ROCKER DIP SWITCHES for PC board use. Can be soldered or fit in socket. Grayhill mfg. NEW #76SB04, 4 sw, 3.75; 5/\$3.

a Samericettt *************

SELECTOR SWITCH 15 BUTTON, MAKE ONE BREAK ONE, RELAY RELEASES ALL BUTTONS WHEN ACTIVATED, 115 VAC OR 24 VDC SIZE;125 X2 X2; WT: 7 LBS. URC#1524115 NEW \$3.95

MICRO SWITCHES



SPST MICROSWITCHES 1-7/8x 5/8x11, 30¢ ea unless otherwise noted. Normally open-n.o. Norm closed-n.c. #WHBT349A-1 n.o. lever #YZ-3RLTC n.o. lever 15A

#SW-186 n.c. ext-pin #WZ-RS9 n.c. ext-pin

#2MC3-lA n.c. pin; 1-5/8z £x2 size.

#V3-23 n.o or #V3-21 n.c. pin; 9/16xlxl-3/8 size. MU-SWITCH Type D in split dye cast housing; in tap conduit hub. 17/8.5 amp 125/250 VAC, new, 75¢

SPDT, one side n.o./other n.c.; 1-7/8x5/8x11, 40¢ ea

#3Z-3R244T4, pin style #WHBT349B-1, lever style #BZ-2R, button w/mtg 50¢ #V3-1 9/16x1x3/8 size



ARROW-HART ARROY-HART
100 AMP 600 V
AC tap switch
2-deck 2-pos
on-off. 62x62
x42, 15 lbs.#8944 NEW \$12.

TAP SWITCHES

TAP SWITCHES, 120/ 240 VAC 10/5 amps unless otherwise noted: 22"d. Used. #AHH-23-10; 2-deck 3-pos w/knob \$2.

#AHH-230; 2-deck 3-pos and OFF. Cont. turn; 15/10 A. No knob; 3/16* d shft. \$2.25 #AHH-33-10; 3-deck, 3-pos with knob,

#AHH-63-10; 6-deck, 3-pos with knob, \$3.50

#AHH-2W-3W 3-pos with OFF. 120/240 VAC 30/15 A (2-wire), 15/15 amp (3-wire). 1-7/8x 12x12, 2 lbs ah. Used w/knob \$2.50

OHMITE 412-12 TAP SWITCH, 12 taps rated 50 amps AC 300 volts, 150 V between taps. Shaft lrim dia; o/a 4" dia x 25, 4 lbs. \$7.95

ES TAP SWITCH, 60 smp 500 VAC/250 DC 4-postion 2-deck, 6 cont/deck. Pos 1 makes cont 2-3, P2 (1-2-4), P3 (1-5), P4 (1-2-6). 52x6x42, 10 1b RS#125402A, unused \$16.95

PUSH SWITCHES



DPST normally open, 1 250 VAC; #PSWOO4 DPST interlock n.o., (3Z-9825/254), #PSW006 65¢ SPST pull switch, normally open, #PSW007 35¢ SPST normally closed case ground; #PSW008 35d SPST normally closed, Grayhill #4002 50¢

2-BUTTON momentary; red breaks, black makes. 32x breaks, black makes. 3gx 1-5/8x1-1/8; #RB-BM \$1.50

MULTI PUSH



SWITCHCRAFT DW-Type, e section DPDT 3 amps AC; 0.5 Section DrDT 3 amps Ac; U.5
A DC 125 V non-inductive.
Can use T-12 size lamp. NEW
#67097-506, 9-button Pushon/Push-off; lx62x12 \$7.75
#67091K-506, 9-button interlooked 36.50

#67137-506, 13-button Push-on/Push-off; 82"W. \$9.75 #67131K-506, 13-button interlocked.

MINI-TOUGLES

MINI-TOGGLE SWITCH STRIP 9-SPDT C&K Ull and one Ul5 momentary toggles soldered to PC board; 13/16°L hand-les. 2 lbs. #MT-9-1M \$4.50 CUTLER-HAMMER mini-toggles, all 120 VAC 6 amp; NEW:

SPDT center-off \$1.50 3/\$4 3PDT on-on, \$1.65, 3/\$4.25 4PDT on-on, \$1.75, 3/\$4.50



MINIATURE SWITCHES, all new Black: blk. White: wh. Black: blk.

DPDT on-on, blk. or wh button (a); C&K #8221, 65¢
SPDT on-off-on, wh. toggle
(b); Alco #MID106E, 75¢ SPDT on-on, blk. rocker (c)
JBT #MR2-123, 55%
SPDT on-on, blk. push-type
Alco #MSP105D, 60%
SPDT on-on l-side momentary
blk or wh push; CK8168 65%
SPST red or wh. tog. (e),
not mini. #CH8381K22 60%
SPDT mini-toggle, baton
throw; on-on. #7101T 65%



(f) tog-DP3T one side mom. prot one side mom. (1) tog-gle; Alco #CST-023TA, 2/\$1 SPDT n.o./n.o., push button (g); Licon #76-2450, 2/\$1 DPDT on-on slide (h), 6/\$1. DFST sub-mini slide switch; Chicago EIA 50, 5/ Interlock switch (i); 10 5/\$1



AIRCRAFT TYPE SWITCH HOLE MOUNTING FIG. #

ABOVE MOMENTARY N/CLOSED SPDT rem 5/125 B-9A .50 SPDT NEW 15/125 B-18

SPDT REM 5/125 B-7A .55 (CENTER OFF, MOM ONE SIDE)

OGGLE SWITCHES

TOGGLE SWITCHES'SINGLE HOLE MOUNTINGS: CONDITION NEW & "REM" REMOVED FROM EQUIP-MENT, ALL GUARANTEED.

CIR CON RATING NO SPST REM 8/125 8817K2 (ABOVE SWITCH MOMENTARY) SPST REM 6/125 SW-105N

REM 8/125 ST-13D ("ON" BOTH SIDES) REM 3/125 7463954 SPDT REM OPST REM 3/125 746395 DPST rem 10/125 ST-52K

DPDT REM 5/125 ST-22R 3PST NEW 15/125 SW3115 4PST REM 15/125 7661K5 1.00

TEN PUSH SWITCH STRIP EACH D.P.D.T. INDIVIDUAL HOLD OF COLLECTIVE OR PELEASE, NEW COLLECTIVE OR PELEASE.NEW 12x4x3/4; NO.4C5231 \$2.25

ROCKER SWITCHES 0319 SPST 39¢ 3 FOR \$1.00

0348 DPDT 59¢ 2 FOR \$1.00

0320 SPDT MOMENTARY BOTH SIDES. 65¢ EA. 2 FOR \$1.20

0347 DPDT MOMENTARY BOTH SIDES. 80¢EA. 2 FOR \$1.50

PUSH BUTTON SELECTOR WHITE BUTTONS, I THRU 4
SEPARATE CONTACTS, 5,6,7
MAKE 2,3,4 RESPECTIVELY W/
COMMON. RED BUTTON RELEASEE
ALL. RATED © 120/240VAC 8/
SIZE:42x12x21; WT: 2 LBS.
GE#ASP8128-417 UNUSED \$.75

LEVER ISWITCHES

4PDT one side 2PDT other side, Both sides Mom.# 1155 New \$2.00 TV-2 tube test Pl

lever sw; make 2-break 2. Removed \$2. 2PDT ONE SIDE, OTHER

2 MAKE, P/O EE-2, USED \$1.00 SPDT make before break and 2/SPST normally closed;

2/SPST normally closed; single hole mount. Tele-type #129596 (FSN #5930-259-6880), unused, \$1.50 2PST one side only Hold, CTR OFF, ONE HOLE MTG. SWITCHCRAFT 5|3|48 NEW \$1

200/400 AMP TAP

#3238 3PDT TAP SWITCH with "off"; rated 200 amp 250 VDC or 500 VAC. 6x9 x9, 20 lbs; ES mrg. New \$19.95 #0279 3PDT TAP SWITCH, no "off"; rated 400 amps 600 VAC. 9gx9x9, 25 lb. \$29.95

BOULFMENT BLOWERS



18 VDC 2400 RPM 5-BLADE FAN removed from oscilloscopes; runs well on 6 VDC. 7" dia blade rotation; o/a 8_{2}^{6} "dia X 5_{2}^{1} " depth. Includes eight single TO-3 heatsinks; 8 lbs sh. #B401/USM, used, \$16.95

DUAL BLOWER, 3450 RFM 1/12 HP 115 VAC 60 Hz 1.1 A GE-motor; 3 inlet, 3 12 out-let. W/capacitor; 11x6x6, 10 lbs. #GE-JG284 used \$15.





TORRINGTON BLOWER, 200 CFM 220 V 3000 RPM (100 CFM 115 VAC 1500 R-PM). 4" dia intake; 2½x3 out. Outlet mtg 4* dia. 0/A 7x7x7½, 10 1b Torrington #Al3980, unused \$18.95

EASTERN AIR TWO SPEED BLOWER, 2800/3200 RFM capacitor-start motor 1/40 HP 0.38 amp 115/230 VAC 50/60 Hz. Mounted on base w/4 mfd capacitor, terminal strips. Approx 150 CFM. Intake 3" dia, outlet 1½x2½. 0/A 8½x11x6½, 14 lbs sh wt. EAD#B747M1-C, used, \$12.95

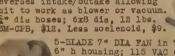


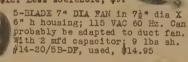
FASCO DUAL BLOWER 50 C.F.M. 115 VAC 60 Hz 0.74 amp @ 2800 RFM. Outlets 2x1-5/8. One outlet is parallel to mounting base; other is at 90, but can be modified as shown in picture. Inlets 2½ dia. Overall 7½x6x52, 12 lbs sh. Fasco type 21, #127S217, unused, \$10.00



5-ELADE COOLING FAN removed from military power supply; 4½m dia ro-tation. 115 VAC 0.1 amp 3300 RPM; w/capacitor. 2½mD. #FAN-2054, \$5.95

HLOWER/VACUUM, 115 VAC solenoid reverses intake/outake allowing unit to work as blower or vacuum. 12 dia hoses; 6r8 dia, 12 lbs. #3M-CPB, \$12. Less soelenoid, \$9.





DIA FAN in conical 4-BLADE 6* DIA FAN in conical 7½ to 5-3/8° dia X 7* high housing; 115 V&C 60 Hz. Adapt to use as duct fan. 8 lbs sh. #3M/4B-DF, used, \$9.95





FAN-TYPE BLOWER, 115 VAC 60 Hz 20 watts; 4" plastic fan blades. Open frame low-noise motor in metal casement-type frame. Approximately 100 CFM. 13x5x2,
5 lbs sh. Howard #1075-3102, used, \$4.50



HEATSINKS

9x4x1 1/8" ALUMINUM. DRILLED FOR 3/TO-3 #3T94| UNUSED \$2.75 122x5x1* aluminum w/3 or 4 TO-3 transistors. #HS-HSB used \$3.95

HEATSINK PANEL has four 10x2-7/8x12 heatsinks and six 2N3055's.on 10% x14 panel; 9 lbs sh. #HS-M32, \$12.00



#WE-HID HEATSINK w/diode approx 100 PIV 25 amp; 5x3x12. Used, \$2.50

DU-4 DIODES. 3-7/8x22x1-1/8, 2 FOR \$1.00

DUAL TO-36 HEATSINK, 3x32x1-3/8; flange mounting. #HSTO36, \$.75 each

#3D523-8 HEATSINK, 5x3xl-9/16; drilled for 3 large stud rectifiers (1" dia recesses), \$2.

#2D734 HEATSINK, $7x4\frac{3}{2}x2\frac{1}{2}$, drilled with two $25/32^{\circ}$ dia. holes. 3 lbs sh. Unused, \$3.50



SERIES 680 HEATSINKS, 12* aq. NEW #1.0G-5-5, 1* high with 0.33* dia. hole for rectifier, 85¢ ea. #.75A-16-1, 0.75* high for TO-5 transistor, 75¢ ea.

COMPACT AXIAL FAND



AXIAL FANS, 42 square X 12 thick; 115 VAC 60 Hz. Removed from equipment; guaranteed.

Rotron MUFFIN or similar; 3-blade 14W \$9.
5-ELADE axial fan in metal frame;
18 watts. Various manufacturers, used, \$12.

ROTRON BT2A-1 BISCUIT@fan, right angle 1"x2" out-take; 115 VAC 50/60 Hz 16 watts, \$12.95

ROTRON

SITE 43 Small 3-1/8x3-1/8x1-5/8 size. Seven blade plastic fan in die cast housing. 115 VAC 60 Hz. 2 lbs. sh. NEW, \$12.95



FIVE BLADE COOLING FAN, 4-5/8* dia. rotation; no en-closure. Mounting bracket hole centers 5-7/8* apart. 115 VAC 60 Hz. 2 lbs. sh. Airtrol #11-2100, NEW, \$4.95

OPEN FRAME COOLING FANS, 115 VAC 60 Hz; metal or nylon blades. Removed from equipment.

#NCR-50, 5* blade rotation, \$3.50



ATSINK ASSEMBLIES



LARGE HEATSINK BANK consisting of five 125"L x 5"W x 1"Th heatsinks and 19 transistors similar to 2N3055's. Assembly originally part of 4 V.
75 amp power supply. Use

as-is or dismantle for parts. 0/A 132x5x2, 12 lbs sh. Removed f/equip. #HSB4-75, \$16.95

#75-4-2400 SERIES 400 HEATSINK with two 12" dia. power rectifiers at least 100 PIV 100 amp each. Size: 5x5x6 w/1-5/8 #75-4-400S SERIES 400 HEATSINK with 7/8" dia. SCR at least 100 PIV 100 amps. Size: 5x5x4, 4 lbs. sh. Removed, \$5.95



SCR CROWBAR CIRCUIT, consists of 40RCS5 SCR rated It 63 A 50 V-max. mounted with thermal switch and two resistors. Potted assembly has trigger voltage adjust 4-7 V. Use with 5 V supplies for overvoltage protection or modify for other uses. #CRBR-40, NEW, \$3.50

HOWARD IZ W BLOWER

HOWARD #1175-08-4 BLOWER, 115 V 60 Hz 12 watts; intake and outtake each 7/8* dia. Suitable for quiet cocling/blowing uses. for quiet cooling/blowing uses. 0/a 4gx3gx3d, 2 lbs. w/hose, \$6.95



ROTRON 7" dia FEATHER FAN, quiet 270 CFM free air delivery; three plastic blades in plastic housing, $2\frac{1}{2}$ " depth. 115 VAC 50/60 Hz 20 watts max. Used-checked \$14.95

HOWARD 42" square equipment fan with 5/8" deep aluminum cast frame and five nylon blades. Heavy duty motor rated 19 watts; overall depth 2-5/8". Removed from equipment. #1175-08, \$9.95

10 1bs sh.



5-BLADE FAN, 64" dia rotation; mounted in 921112 aluminum frame with 8x8 removable filter. Motor rated 105/125 VAC 50/60 Hz 1/40 HP 3350 RFM; 4 mf 330 VAC capacitor included. 54" depth behind panel. a sh. #B201/MD141, used, \$10.95

HEWLETT-FACKARD

HP-400D VTVM, 0.000l to 300 V-rms in twelve ranges; -50 to +60 db. 10 Hz-4 Mhz response. 23 lbs sh. Reparable, \$65.00 HP-400DR, same as above, except rackmount; 30 lbs. \$60.

HP-412A DC VOLTMETER, 1 mv to 1 microamp to 1 amp and 1 ohm to 100 megohms. Mirrored scale; 23 lbs. \$100.

HP-413AR DC NULL VOLTMETER, 13 zero-centered ranges from 1 mv-1000 VDC; rackmount. \$60.

HP-410ER VTVM, rackmount version of 410E on pg 31; w/probe harness \$60. W/o harness \$25.



HP-431B MICROWAVE POWER METER solid-state unit for 0.1-10 mw over 10 Mhz-40 chz depending on thermister mount; 10 lbs. No thermister mount \$75.

HP-302A WAVE ANALYZER, 20-50000 Hz, 30 uw to 300 V fullscale; also frequency restorer, oscillator, and AFC circuits, \$225.00 HP-513A TRACKING OSCILLATOR w/book, \$395.00 HP-202A FUNCTION GENERATOR, \$50.00 HP-212A FULSE GENERATOR, \$50.00 HP-739AR FREQUENCY RESPONSE TEST SET, 300 Khz to 10 Mhz in three ranges, \$75.00

HEWLETT-PACKARD 650A TEST HEWLETT-PACKARD 650A TEST
OSCIILATOR for 10 Hz to
10 Mhz in six ranges.
Output 30 mv to 30 volts;
600 ohm impedance. Output attenuator 0-50 db in
10 db steps, flat ±1 db
throughout range. 10zx19x15,
48 1bs sh. Used, reparable, \$95.00; Cabinet
for 650A, add \$10. Manual, \$8.50 w/purchase.



FLUKE 803D

FLUKE 803D AC-DC DIFFERENTIAL VOLTMETER, 0.1-500 volts AC-DC. Designed accuracy: 20.2% (AC), 20.05% (DC). Response 20 Hz to 10 Khz. 115 VAC 60 Hz required. 122792x16, 35 1bs. Used \$49.50 FLUKE 801, earlier DC only version of 803D; used-reperable, \$22.00 FLUKE 801R, rackmount 801; reparable, \$20.00

HICKOK MULTIMETER



HICKOK 1604M SOLID-STATE MULTI

HICKOK 1604M SOLID-STATE MULTI METER, achieves high gain by using chopper to allow use of AC-coupled amplifiers. AC response to 700 Mhz and AC voit ranges 0-0.5-1.5-5-15-50-150-300 VAC. Rieven DC voits full scale ranges from 0-0.5 V to 1500 V in 15-50-150 sequence. Fourteen DC current ranges 0 to 1.5 nanoamp to 150 ma in 1.5-50-15 sequence. Resistance ranges from 0-500 oma to 500 megohns in seven steps. AC probe uses EA53 tube. Includes AC and DC probes, two test leads, and partial repro of manual. Requires 115/230 VAC 50-400 Hz. 7½ m5½ m9½, 13 lb sh. Used-reparable, \$85. Checked, \$125.00 lb sh. Used-reparable, \$85. Checked, \$125.00 T-CONNECTOR for 1604M, \$20 w/purchase of set.

TS-117/GP WAVEMETER TEST SET

TS-117/GP WAVEMETER TEST SET designed for frequency measurements between 2400 and 3400 Mhz. Used to measure antenna radiation, local oscillator frequencies, relative field strength, and relative output. Q from 1800 to 2000. Includes 50 u-ammeter, sensitivity vernier, and frequency micrometer with conversion tables. Accessories AS-25 directive antenna, UG-163 cable, UG-57 and UG-131 adapters and transit case. Uses N connectors. 5x6x3, 15 lbs sh. Used, complete, \$39.95 Less accessories, \$29.95



SIGNAL GENERATORS



HEWLETT-PACKARD 606A, 50 Khz to 60 Mhz AM in six bands.
Output: 0.1 uv to 3 volts into 50 ohms, vernier and step controlled. Features constant output and modulation and low distortion.

10 x19 x13 1, 50 lbs sh. Used, checked, \$795.00

TS-418/URM-49, 400-1000 Mhz AM, CW, pulse. Output: 0.2 to 200K uv into 50 ohms. 122x172x132, 70 lbs sh. Used, reparable, \$175.00

TS-419/URM-64, 900-2100 Mhz CW and pulse @ 1 MW max. into 50 ohms. Repetition rate between 40 and 4000 pulse/sec. Delay: 5 to 300 u-sec. 14x17½x11, 50 lbs sh. Used, reparable, \$165.



HEWLETT-PACKARD 608ER SIGNAL GENERATOR, 480 Mhz AM; rackmount. Checked w/book, \$495. HP-618B GENERATOR, 3.8-7.5 Ghz-reparabl \$275

AUDIO OSCILLATOR

TS-382*AUDIO OSCILLATOR, 20 Hz TO 20 KHZ IN FOUR BANDS. OUTPUT: O TO 10 VOLTS ACROSS 1000 OHMS. WITH BUILT-IN 60 AND 400 Hz REED FREQUENCY METER. SIZE: 10x122x182, SHPG. WT: 50 LBS. NET: 45 LBS. PRICE: USED, REPARABLE, \$49.50. CHECKED, \$65.



TS-382F AUDIO OSCILLATOR, MOST RECENT VERSION TS-382. USED, REPARABLE, \$60. CHECKED, \$75. TRANSIT CASE F/TS-382F, USED, \$10.00.

SIV TO OUR DWZ SENERATOR

POLARAD 1107 SIGNAL GENERATOR, 3.70 to 8.40 Ghz CW, square wave, and sawtooth FM; has three place mechanical digital tuning. Output at-



tenuator continuously tunable from 0.1 u-volt to 300K uv. Internal aquare wave and FM rate 800-1200 Hz; FM sweep adjustable over 5 Mhz most of band. 2/A713441 transistors and tube 4/0A2, 3/12AX7, KL34, 8068, Al60011 Polerad # klystron. Requires 115/230 VAC; 5½x16½x18½50 1bs sh. Used-reparable w/book, \$350.00

KLYSTRON POWER SUPPLY

HEWLETT-PACKARD 7154 KIYSTRON
POWER SUPPLY for low power
klystron tubes. Output -250
to -400 VDC regulated 30 to
50 ma for the beam electrodes
and 0-900 VDC regulated for
the reflector electrode. Reflector volts can be modulated by internal 1 kHz square
wave or externally; square
wave modulation adjustable up to 120 V peakto-peak. Frequency modulation for 60 Hz sine
wave 0-350 V p-p. Requires 115/230 VAC 50-60
Hz. 71112132, 26 lbs sh. Used, with output
cable, 449.50; Less, output cable, \$39.50



VOLTMETER-VLF RECEIVER



ME-71/FCC AUDIO LEVEL METER, covers 20 to 500 KHZ CONTINUOUSLY TUNE-

KHZ CÓNTINUOUSLY TUNE-ABLE. AS SELECTIVE DETECTOR, IT MEASURES RF CARRIER ACROSS A [35] OHM BALANCED OR 600 OHM UNBALANCED LINE. VARI-TER. INCLUDES [00 KHZ CALIBRATOR. INPUT IMPEDANCE; 10K OHMS. AUDIO GAIN AND TWO PHONE JACKS. VARIOUS MODELS ("C" PICTURED). POWER REQUIRED; 115 VAC 60 Hz. [7x14x9; 40 LBS SH. MF-71. W/NATIONAL-TYPE DIAL USED. \$40.00 ME-71, W/National-type dial, used, \$40.00 ME-71B, used, reparable, \$45. ME-71C, \$50. Operational, add \$30. MANUAL, repro, \$8.50



HEWLETT-PACKARD DISTORTION
ANALYZER MODEL 330BR.
WILL GIVE QUICK ACCURATE
MEASUREMENTS OF DISTORTION
AS LOW AS 0.1% AT ANY FREQ
FROM 20 CPS TO 20,000 CPS
IT WILL MALE NOISE MEASURMENTS OF VOLTAGES
AS SMAL AS 100 MICROVOLTS. THE ANALYZER HAS
HIGH SENSITIVITY AND HIGH STABILITY. ITS CIR
CUIT 20 DB AMPLIFIER, OSCILLISCOPE TERMINALS,
AND PRECISION VACUUM TUBE VOLTMETER WHICH IS
USEABLE SEPARATELY. EXCEPTIONALLY USEFULL FOR
ALL KINDS OF AUDIO MEASUEMENTS IN RECORDING,
BROADCAST, MOTION PICTURE, LABORATORY ETC.
SIZE:82x192x132 (RACKMTG) WT; SHPG. 40 LBS.
PRICES: USED REPARABLE \$185. CHECKED \$225.

TS-723-C SPECTRUM ANALYZER. MILITARY VERSION

TS-723-C SPECTRUM ANALYZER, MILITARY VERSION OF HP-330B; USED, REP, \$165. CHECKED, \$210

FM SIGNAL BENERATOR

SG-12/URM- FM SIGNAL GEN-ERATOR, 19.5 TO 102 MHZ FM IN FIVE BANDS WITH DEVIA-TION RANGES 0 TO 25, 50, AND 100 KHZ; 1000 HZ MODU-LATION. ALSO IF OUTPUTS ON 1.4, 2.515, 2.65, 2.88, 4.3, 4.45, 5.0, 5.35, 15 MHZ, PLUS TWO SPARE POSITIONS. CALIBRATED OUTPUT VOLTAGES: 0.5 UV TO .01
VOLTS (RF); 0.5 UV TO 1.0 V (IF), OUTPUT IMPEDANCES: 10 OHMS (RF); 25 OHMS (IF). WITH
1 MHZ AND/OR 2 MHZ CRYSTAL CALIBRATOR MARKERS. POWER REQUIRED: 115/230 VAC 50-1000 Hz.
SIZE: 12x18x12; SHPG WT: 85 LBS. reparable, \$65.00; Checked, \$125.00 MANUAL, partial repro, \$12. TRANSIT CASE \$15.

IO KHZ TO SO MHZ



AN/URM-25F SIGNAL GENERA-TOR, covers 10 Khz to 50 Mhz AM in nine bands. RF output: 0.1 to 100K micro-volts into 50 ohms; 2 V adjustable across high

adjustable across high load impedance. Modulation 0-50%, 400 or 1000 Hz internal. 1 Mhz calibrator; designed accuracy ±0.05% above 10 Mhz Requires 115 VAC 50-100 Hz. 112x14x102, 44 lbs. Used, reparable, \$145. Checked, \$210.00

ACCESSORIES available w/purchase of URM-25F: BOOK-partial repro. \$10. DA-109 Dummy Load \$6 CX-2919 Test Lead Adapter, \$7.50 CU-406 Impedance Matcher, 500 ohms up, \$7.50 CU-408 Impedance Matcher, 70 ohms, \$7.50 ENC Cables, 6", \$1.00; 4 feet, \$1.50

SPECIAL SALE VTVM'S * * * * * * * * * * * * * * * * * * *

VACUUM TUBE VOLTMETERS at reduced prices due to special quantity purchase. All are used. to special quantity purchase.

TS-505/U, ranges 0 to 2.5, 5-10-25-50-100-250-500 Vrms plus 1000 VDC scale. Also Response: 30 Hz to 5 Mhz.
With AC, DC, and ohm probes.
92x9x6, 17 lbs. Reparable NOW \$20. Checked, \$65. \$45.



MANUAL, partial repro, \$8.50

HEWLETT-PACKARD 410B, features 20 Hz to 700 Mhz response with full scale ranges 1-3-10-30-100

full scale ranges 1-5-10-50-100
and 300 Vrms plus 1000 VDC. Resistence scales X1 thru X1 Meg.
High frequency AC probe has EA55/
2-01C tube. 112.72x82, 15 lbs sh.
Reparable, 189-50 NOW 185.00
Manual. 18.50 with set purchase.

ME-180/USM-116, similar electronically to the HP-410B,
set has added 0.02 to 1000 MA
DC feature. Response to 100
Mnz with AC probe and to 700
Mnz with optional T-connector
accessory. AC probe uses 6925/
EA52 tube. 7x81x9, 21 lbs sh.
Reparable, 185 155. Checked, 186 165.00
T-connector, 110 w/set. Manual, par-repro 110



FREQUENCY COMPARATOR

CM-212/USM-144 FREQUENCY COMPARATOR, used with frequency counters to determine with high accuracy frequencies from 10 Mhz to 12.4 Ghz; simi-lar to Hewlett-Packard



lar to Hewlett-Packard
540A oscillator. Measures
CN, FM, and pulse modulated RF signals. Unknown signal is fed into USM-144 and is compared to a mixed frequency generated
from a stable, continuously adjustable fundamental from 100 to 220 Mhz. Difference in the unknown is shown on 2° dia CRT (2BP1) display. Final determination of the input signal made by the zero beat of the fundamental multiplied by the appropriate hermonic.
Requires 115 VAC 50-440 Hz; 132x19x131, 65 lbs sh wt. Used. reparable, 399.50
TRANSIT CASE \$10 W/purchase. MANUAL \$10 W/set TRANSIT CASE \$10 w/purchase. MANUAL \$10 w/set

O . - IO GHZ FREG. METER



TS-186/UP FREQUENCY ME-TER, measures frequencies from 100 Mhz to 10 Chz using harmonics of a 50-1250 Mhz heterodyne oscillator. Zero beat dial readings are inter-polated into frequencies via a calibration book. Zero beat indicated on an 0-1 milliammeter or

monitored through a 600 ohm headphone jack. RF signal input must be from 500 MV to 1 V for proper use. With tubes 2040, 955, 5Y3, 2/0D3, and 5/6SJ7. Power required: 115 VAC 50-1000 Hz. 9½x8½x20; 48 lbs. sh. Used, reparable 305 \$55. Checked, \$165 \$95. MANUAL f/TS-186, partial reproduction, \$8.50

VOLUME & CURRENT METER



NORTHERN RADIO and CURRENT LEVEL INDICATOR with

marged -40-0-25. Volume meter introtes -20 to \$3 6b. Has input transformer 20-40000 Hz ±0.7 db 7500 ohms. Select either terminating or bridge input. Current meter shows 75-0-75 MA DC. With tubes 0A2, 3C4, 6X4, and 12AU7. Power required: 115/230 VAC 60 Hz. Size: 5½x 19x7½; 18 lbs sh. Unused w/manual. \$50.00

20-1400 MHZ WATTHETER



TS-118A WATTMETER. thermocouple type measures RF power over 20-1400 Mhz AM-FM-CW

20-1400 Mhz AM-FM-CW in ranges 20-100 Mhz (2-300 watts), 100-300 Mhz (2-500 W), 300-700 Mhz (2-250 W), and 700-1400 Mhz (2-125 W) aepending on thermocouple used. DC millivoltmeter indicate voltage developed and the reading is translated into RF watts by use of calibration charts. SWR less than 1.25:1; Input impedance 50 ohms. Can be used as dummy lead with proper adapter (not available). Includes thermocouples MX-1781-1782-1783-1785, tuning shunt MX-1784, connector adapter UC-999, and transit case. 82x6x201, 48 lbs sh. Used, \$165. MANUAL, for above, partial repro, \$7.50

PULSE GENERATOR

RUTHERFORD BYB FULSE GEN-



RUTHERFORD B7B FULSE GENERATOR with 2 Hz to 2 Mhz
repetition rate in five
bands. Pulse delay: 0.0
to 10K u-sec. Width: 0.05
to 10K u-sec. Pulse output 50 V min. into 50 ohm load,
positive or negative. Rise/fall time 0.015
u-sec. Sync pulse out 10 V min., 0.05 usec
width; 0.03 usec risetime, positive polarity.
Requires 115 VAC 50-60 Hz. 8x192x13, 50 lbs
sh wt. Used, reparable; \$65.00

DUAL-TRACE PRICE-CUTS



AN/USM-140C OSCILLOSCOPE, DC TO 30 MHZ MAINFRAME, SIMILAR TO H-P 170A. IN-CLUDES MX-2930 DUAL-TRACE CLUDES MX-230 DUAL-TRACE VERTICAL PLUG-IN WITH DC TO 22 MHz PASSBAND. INPUT IMPEDANCE: I MEG-OHM SHUNT-ED BY 30 PF. INPUT SENSITIVITY: 0.02 VOLT/CM TO 20 V./CM. FUNCTIONS: CHANNEL

A. CHOPPED, A-B, AND ALTERNATE. HORIZONTAL MX-30.78 PLUG-IN SWEEP RATE: 0.1 U-SEC/CM TO 5 SEC/CM. HORIZ. SENSITIVITY: 0.1 V/CM TO 10 V/CM. MAGNIFIER XI TO X100 IN SEVEN STEPS. CALIBRATOR: 0.2 MV TO 100 V. IN NINE RANGES. POWER REGUIRED: 115/230 VAC 50-1000 Hz. SIZE: 142x19x22; SHPG. WT: 110 LBS. PRICE: USED, REPARABLE, \$195. CHECKED, \$295.

TRANSISTOR TESTER

HICKOK MODEL 1890M TRANSIS-TOR TESTER, checks transistors in and out of circuit.

tors in and out of circuit.
Collector leakage current
(I_{bo}) ranges: 0-50-500 ua
and 50 ma. Collector
current (I_a) 0-1-10-100 ma.
Current gain Beta: 0-50-100
-200-400. AC test signal
1000 Hz. Transistor input
resistance range 50-10000 chms; circuit input
impedance 25-100000 ohms. Collector voltages
0-1.5-3-4.5 VDC. Has transistors 4/2M65lA,
2M650A. Requires batteries (not supplied)
Eveready 763 (22.5 V) and two Burgess 2370-ST
(4.5-3-1.5 V). With partial repro of manual.
10x102x92, 18 lbs. Used-reparable, \$54.50

DUMONT 304 SCOPE



DUMONT 304H OSCILLOSCOPE, has big 5° CRT (5CPL). DC to 100 Khz response; usable to 300 Khz. 100 MV full scale verti-cal sensitivity. Sweep: 2-30 Khz. Max. sweep rate: 1° per u-sec. Input impedance: 2 meg-

u-sec. Input impedance: 2 megohms paralleled by 50 pf.
Graticule not included. Power required: 115/230 VAC 50-60 Hz
9x13*x19; 65 lbs. sh. Used, reparable, \$45.
304H SCOPE shipped with 5CP7 CRT, \$49.50
DUMONT 304A SCOPE, same as "H" model, but uses 5ADP1 flat-faced CRT. Used, rep., \$50.
MANUAL for 304A or H, partial repro., \$8.50
DUMONT 304AR. like 3044 but rackmount. DUMONT 304AR, like 304A but rackmount, \$45.

DUMONT 401 SCOPE, DC-500 Khz, 50 lbs, \$60.

HICKOK 770 SCOPE, DC-5 Mhz, 60 lbs, \$65.00

BROWNING OL-23 SCOPE, DC-5 Mhz w/triggered

sweep and sweep delay; 80 lbs sh, \$80 \$60.

OS-51/USM-24C SCOPE, 2 Hz-8 Mhz, 63 lbs \$60.

DUAL TRACE IS MHZ SCOPE



TEXTRONIX 516 OSCILLOSCOPE featuring DC to 15 Mhz response, dual-trace, and 5° CRT. Vertical sensitivity:
0.05 to 20 v/div in nine calibrated steps, to 50 v/div using vernier; 23 nsec risetime. Sweep range 0.2 usec/div to 2 sec/div in 22 calibrated steps, to 6 sec/div with vernier; ID trace magnifier. Dual trace modes Channels A er B enly, chepped, er alternate. Squarewave calibrater in 11-steps from 0.05 to 100 V. Autematic triggering; external trigger requires 0.5-25 V signal. 115 VAC 60 Hz; 132x92x212, 50 lbs sh. W/beek. Used-reparable, \$185. Checked, \$235. TEXTRONIX 516 OSCILLOSCOPE

ME-60 VOLTMETER



ME-6D/U VTVM, covers 0.005 to 500 V-rms in six ranges and -65 to 57 db. Built-in 15 Hz-250 Khz wideband amplifier with max. voltage gain of 4500; minimal distortion to 23 VAC output. 115 VAC 50-400 Hz. 112x62x52, 14 lbs sh wt. Used-reparable, \$20. Checked, \$40. MANUAL f/ME-6D, partial repro \$8.50

8500-8600 MHZ TEST SET

-148/UP SPECTRUM ANALYZER. 8470-9630 Mhz with 3* CRT (3BP1) display. Measures frequencies of cavities, echo boxes, magnetrons, and local oscillators. Receives CW and pulse; transmits CW and FM carrier, 1 MW power output (2K25). Max. spectra dispersion: 1.5 Mhz/in. Requires 115 VAC 60 Hz. 19x13 x25, 45 lbs sh. Used, \$50.00

AN/UPM-33 TEST SET, includes T3-148/UP, wave guides, horn antenna, cables, transit case, and manual; 80 lbs sh. Used, \$85.00

SSD TEST EQUIPMENT



SG-376 TRANSISTORIZED TWO-TONE I.F. SIGNAL GENERATOR for testing SSB equipment. Has two 20 Hz-20 Khz aud-

io oscillators and two independent I.F. oscillators. IF output: two independent I.F. oscillators. IF output: 497.5, 498.5, 501.5, or 502.5 Khz only; also 497.5 & 498.5 or 501.5 & 502.5 Khz simultaneously. Output levels: 2-2.5 V into 600 ohms (AF); 1-1.25 V into 500 ohms (IF) with attenuation to 100 db in 1 or 10 db steps. Designed distortion less than 60 db below max signal. Requires 115 VAC 50-450 Hz. 5½x19x11 35 lbs sh. Used-reparable \$135; Chkd., \$195. MANUAL for SG-376, \$7.50 if purchased w/set.

SG-823/URM-144 TWO-TONE REFERENCE SIG-NAL GENERATOR, used in the measuring of receiver sensitivity
and SSB transmitter distortion. Provides



two RF outputs which can be used independently or in combination with no intermodulaently or in combination with no intermodulation effects. Frequency outputs: 2.0, 3.6, 4.0, 7.2, 8.0, 14.4, 16.0, 28.8 Mhz at 100K u-volts max into 50 ohms. Frequency adjust \$0.05% (tone A), \$0.0025% (B). Distortion at least 60 db below max signal. Requires 115 VAC 60 or 400 Hz. 5½x19x11, 35 lbs sh wt. Used, reparable, \$125.00; Checked, \$185.00 MANUAL for SG-823, \$7.50 if purchased w/set.

VLF TEST SETS

TS-2669 ENVELOP DELAY DISTORTION MEASURING SET Acton mfg; multi-func-tion w/5-digit frequency counter & signal genera-tor over 0.1-600 Kbz 10 db max. Provides carrier,



reference, & sweep signals; 25, 83-1/3, 250 Hz modulation. Delay Millisecond and # Modulation meters; solid-state. Reparable, \$495.



GEO SPACE VLF-12 RE-CETVER-PHASE COMPARA-

1 Khz IF; 100 Khz standard. Built-in chart recorder, 5-place usec counter, 0-80 db attenuator. 115 VAC or 12 VDC in. Reparable \$295.

FR-149 FREQUENCY METER



FR-149/USM-159 TRANSISTORIZED FREQUENCY METER,
COVERS 125 KHZ TO 1000 MHZ
IN THREE RANGES: 125 KHZ2.5 MHZ, 2.5-65 MHZ, AND
65-1000 MHZ. CAM BE USED
AS A SIGNAL GENERATOR BY
PROVIDING EITHER MODULATED
OR UMMODULATED SIGNALS.

FREQUENCY FUNDAMENTALS READ DIRECTLY EROM
MAGNIFIED AND ILLUMINATED CALIBRATED FILM
STRIP AND THEN-INTERPOLATED IN ACCOMPANYING
CALIBRATION BOOK. OPERATES FROM EITHER SIX
"D" CELL BATTERIES OF FROM 115/230 VAC 50-450
HZ. SIZE: IIXIIXIS; SHPG. WT: 33 LBS.
UBed-reparable 390-80 375. Checked 320 \$115 Used-reparable \$99.50 \$75. Checked \$280 \$115

10-44,880 NHZ ANALYZER



TS-1010/UFM-84 SPECTRUM ANATYZER, covers 10 Mhz to
44.88 chz in eight bands;
5" (5ADF7) CRT display.
Resolution 2 3 db points:
20 Khz all frequencies.
Dispersion: 500 Khz-5 Mhz
adjustable (10-55 Mhz); 500
Khz to 25 Mhz (55 Mhz up).
Spectrum calibrator 160 Mhz
center freq -12.5 Mhz.
-40 dbm (2.0 Ghz up). RF attenuation 100 db
uncalibrated internal 10 Mhz-12.4 Chz; external attenuators required above. IF atten-S-1010/ITPM-84 SPECTRUM AN-

ternal attenuators required above. IF attenuation 0-60 db in 6 db steps. Requires 115 VAC 60 Hz. 172x192x26; 180 lbs sh, 145 lbs net. Used-reparable, \$425.00; MANUAL, partial repro, \$15. Some ACCESSORIES available-write.

LINE PREQUENCY

FR-40/GSM-1 LINE FREQUENCY ME-TER, portable meter for monitoring power line frequency. 50 tr 70 Hz range in 0.2 Hz/div; 4½" wide scale. Input voltage 100-125 VAC. 112782x62, 10 15s sh. Used, checked, \$75.00 to



MILITARY TEST EQUIPMENT, used-reparable: AN/USM-50 OSCIILOSCOPE, 3 Hz-15 Mhz with sweep delay; 3" dia CRT, 80 lbs sh. \$75.00 sweep delay; 5" dia CRT, 80 lbs sh. \$75.00 MK-56 PHASE-TEST SCOPE, modified OS-8 (p 33) designed to check selsyn phasing, \$45.00 TS-34A/UP SCOPE, 30 Hz-1 Mhz using 2AP1 CRT; controls on side, 8x9x20, 40 lbs sh, \$45.

ORION AC YTVM



ORION V-100M VACUUM TUBE VOLTMETER with 6 W X 4 h VOLIMETER with 5 w x 4g m mirrored scale; similar to Hewlett-Packard 400H. Twelve full scale meter ranges from 0.001 to 300 VAC (rms) or -60 to +50 DB. Response 10 Hz to 4 Mhz. Input impedance 10 megohms shunted by 24 pf (.001-0.3 V) or 14 pf (1-300 VAC). Requires 115/230 VAC

50-1000 Hz. 112x72x112, 22 lbs st Used-reparable \$35. MANUAL-partial repro \$10.

DATA TECH 5818



DIGITAL PANEL METER, 0-20 VDC 3r digits; Data Tech Model 5313-220. Accuracy: 40.1% reading plus one count. Input impedance: 10 megohms. Has Sperry 7-segment 0.5" readouts. Also auto polarity, overvoltage protection 4200 V.,
Uses standard TTL and linear IC's for easy repair. Manual and schematic included. 4" x 1-7/8" H x 5% D. 3 lbs sh. Checked, \$39.50

repair. Manual and schematic included. 4"W x 1-7/8"H x 5½"D. 3 lbs sh. Checked, \$39.50

COMMERCIAL TEST EQUIPMENT, used-reparable:
BOONTON 190A Q-Meter, 20-260 Mhz, \$235.00
BOONTON 202B FM GENERATOR, 54-216 Mhz, \$195.
BOONTON 202B FM GENERATOR, 54-216 Mhz, \$195.00
FAIRCHILD 74-13A Calibrated Sweep Delay scope plug-in for 765H/t66H/767H, \$125.00
FAIRCHILD 76-08 50 Mhz Dual-Trace amp, \$100.
FAIRCHILD 76-01A 25 Mhz Single trace, \$35.
GENERAL RADIO 546C Microvolter, \$60.00
GR-650A Impedance Bridge w/AC supply, \$130.
GR-760B Sound Analyzer, 25-7500 Hz, \$85.00
GR-761A Vibration Meter, \$80.00
GR-1026A Signal Generator, 9.5-500 Mhz AM;
FM and phase look capabilities w/book, \$550
HEWLETT-PACKARD 122AR Oscilloscepe, DC-500
Khz dual-trace; rackmount style, \$165.00
H-P-175A Scope, DC-50 Mhz dual-trace, \$345.
MARCONI TF791D FM Deviation Meter, 4-1024
Mhz; dev ranges 5-25-75-125 Khz w/book \$245
MARCONI TF792D FM Deviation Meter, 4-1024
Mhz; dev ranges 5-25-75-125 Khz w/book \$245
MARCONI TF791D FM Deviation Meter, 4-1024
Mhz; dev ranges designed to identify atmospheric pollutants by analyzing light refraction the air, \$995-00 \$750.00
WAYNE KERR BSO1B VHF Admittance Bridge \$495.

TRANSISTORIZED SCOPE



HFE T4214A TRANSISTORIZED SCOPE, British made, uses PC cards for pre-amp, deflection amp, time base, intensity mod, and sweep amp; provision for delay, trigger pick-off, and trigger delay. Approx 300 Khz response; top-to-bottom sweep can be easily changed to left-to-right. Standard oscilloscope controls including 0.1-10 V/div attenuator in 7-steps, 1 usec-10 msec time base 5-steps, X2 multiplier; Time Base Shift, Free Run/Single Shot, etc. Slightly bent frame; less case and power plug. Requires 115 VAC 60 Hz or 12 VDC 1 amp. 9x17x25, 63 lbs sh. (Can be shipped UPS in two packages.) Used, reparable, \$50.00

OS-8 OSCILLOSCOPE

OS-8/U OSCITLOSCOPE with 3RP1 CRT: OS-8/U OSCIHLOSCOPE with 3RP1 CRT; amall pertable unit has DC to 2 MRz respense. Vertical and herizental sensitivity: 0,075 v-rms per 1" deflection. Sweep range: 5 to 50 Khz. Input impedance: 9 megenns shunted by 11 pf DC. Direct access to vertical and herizental plates. Requires 115 VAC 50-1000 Hz. 976x15\$; 20 1bs sh. Used-reparable, \$49.50; Checked \$75.00 MANUAL for CS-8, partial repre, \$3.50



TELETYPEWRITER SCOPE



TDA-2N TS-1060 TELETYPEWRITER TEST SCOPE, MEASURES BIAS AND DISTORTION OF START-STOP AND SYNCHRONOUS TELEGRAPH SIGNAL ON A 3" CRT. INPUT SPEEDS APPROX. 60 WPM (5 UNIT CODE), 60,75,100 WPM (7.42 CODE, AND BAUD SPEED EQUIVELENTS TO SOME MARKING, OR SPACING BIAS AND DISTORTION. TUBES: 3KPI,5651,0A2,3/12AT7,6X4,0B2,3/5963,5726. POWER REQUIRED 115/230V 60Hz. 8X8X15 SHPG. WT: 24 LBS. USED REPARABLE \$34.95 (FOUNDATION UNIT) LESS C.R. TUBE \$17.95

ME-9 MULTIMETER



ME-9/TS-352 MULTIMETER, PORTABLE GENERAL PURPOSE VOM. 1000 OHMS/VOLT AC-DC SENSITIVITY OR 20,000 OHMS/V. SENS. DC ONLY. MEASURES AC-DC VOLTS FROM 2.5 TO 1000 V. IN SIX RANGES. DC AMPS FROM 250 U-AMPS TO 10 AMPS IN EIGHT SCALES; OHMS FROM XI TO XIOK. WITH 4" METER (FS=50 UA); JACK FOR 5000 VDC @ 20,000 OHMS/V.; AND TEST LEADS. REQUIRES THREE 4½ VDC AND ONE ½ VDC BATTERIES (NOT AVAILABLE). SIZE: I14x82x6; SHPG. WT: 17 LBS. USEO. PRICE: REPARABLE, \$29.95; CHECKED, \$39.95

MULTI-PURPOSE TEST SET

AN/TRM-1 SIGNAL GENERATOR, covers 0.19-400 Mhz AM using two RF oscillators SG-32 (0.19-30 Mhz in 5-bands) and SG-33 (30-400 Mhz). Internal modulation 0-60% @ 1 Khz or 200-6000 Hz external. Output: 2.5 to 100K u-volts in nine



steps; 50 ohm impedance. Built-in voltmeter measures 0-3-30-600 VDC, 0-3-30-300 VAC, and 0-10-100-1000 MW. Also tests performance of 3 to 100 watt transmitters over freq. range when proper coupler and dummy load (not included) is used. Write for availability/price of accessories. Requires 115 VAC 60 Hz. 18x13x8; 65 lbs. Shipped UPS in two cartons. Used, reparable \$155. Checked, \$225. MANUAL, partial repro., \$10.

TEKTRONIX SCOPES



Other TEXTRONIX SCOPES; plug-in types priced without plug-in. All used-reparable.

TYPE 511AD 5 Hz to 10 Mhz, 85 lbs sh., \$70.

RM15 DC to 15 Mhz single trace, \$165.00
536 DC to 10 Mhz X-Y scope; requires

two plug-ins, \$1 543 DC to 30 Mhz single time base; \$115.00 X100 mag, plug-in type, \$175.00
551 DUAL BEAM to 15 Mhz, uses two
plug-ins; w/sxternal supply, \$195.
555 DUAL BEAM to 30 Mhz, w/sweep delay,
Type 21 and 22 Time Base plug-ins \$175.00

and external power supply; requires to vertical plug-ins, \$250.00 RM561A compact rackmount scope w/2B67 time base and choice of 2A60 1 Mhz or 2Z63 300 Khz diff-plug-in, \$195.

TEXTRONIX TYPE 82 DUAL-TRACE SCOPE PLUG-IN, DC to 80 Mhz response for 580-series \$175. TEK TYPE CA DUAL-TRACE, DC to 24 Mhz for 530, 540, and 550-series scopes, \$110.00

Other vertical amp plug-ins for Tektronix scopes and similar ones by other manufacturers. Add \$10 for units of Tektronix manufacture. All *used-reparable*: Tektronix manufacture. All "used-reparatie" TYPE C Dual-trace (Eickok only), \$90.00
TYPE D, High-Gain, DC differential, \$25.00
TEK TYPE M, Four-Trace, \$195.00
TYPE G, Wide-band, DC differential, \$20.00
TEK TYPE 53/54K, Fast-rise, \$45.00
TYPE L, Fast-rise, high-gain, \$55.00
TEK 2867 Time Base for 560-Series, \$95.00
TEK 10A2A DC-100 Mhz dual-trace f/647 \$195.



TEXTRONIX 180A TIME-MARK GEN-TRKTRONTX 180A TIME-MARK GEN-ERATOR, 14 time-mark intervals from 1 u-sec to 5 seconds. Three sine wave freq: 5, 10, & 50 Mhz. Trigger rate freq: 1, 10, 100 Hz and 1, 10, 100 Khz. Power required: 115/230 VAC 50-60 Hz. Size: 132x10x162, 37 lbs sh. Used, reparable \$75 Used, checked, \$100.00

TEX 180 TIME-MARK, older square-cornered case version of above pictured unit, \$62.50

TEXTRONIX 105 SQUARE WAVE GENERATOR, 25 Hz to 1 Mhz directly readable on meter, \$65.00 TEK 107 SQUARE WAVE GENERATOR 400-1K Hz, \$50. TEK 160A POWER SUFPLY f/sequence rack, \$25.00
TEK 161 PULSE GENERATOR module, \$25.00
TEK 162 WAVEFORM GENERATOR module, \$25.00
TEK 163 FAST-RISE PULSE GENERATOR module, \$25
TEK 181 TIME-MARK GENERATOR, 1-10-100-100010K usec plus 10 Mhz sine wave, \$60.00



TEKTRONIX 190A CONSTANT-AMPLITUDE SIGNAL GENERATOR with 190A attenuator unit; produces sine waves at produces sine waves at constant amplitude in the 350 Khz to 50 Mhz range. Six bands; output continuously variable over entire range. Also 50 Khz position variable over narrow band. Output amplitude variable from 40 my to

10 v peak-to-peak. 190% attenuator attenuates 0.1, 0.25, 0.5, 1, 2.5, 5, and 10 at nominal impedance of 52 ohms. Requires 115/230 VAC 50-400 Hz. 92132x11; 30 1bs sh wt. Used-reparable \$145. \$125. Checked \$145. \$145.

LM FREQUENCY METER



IM FREQUENCY METER, crystal calibrated unit covers 125 20,000 Khz in two bands. Designa accuracy better than 0.02%. Output 250 uv minimum 600 ohm impedance. 40% AM modulation at 500 Hz. With

calibration book, 1000 Khz crystal, and tubes 6A7, 76, 77, 2/991. Requires 12 V 600 ma AC, 260-475 VDC 20 ma. 8gx8x8g, 14 lbs sh wt. Gov'treconditioned, \$24.95; MANUAL, \$7.50 w/set. Power input connector for meter, \$3.00

SIGNAL GENERATORS

AN/URM-25 SIGNAL GENERATOR, older version of URM-25F, 10 Khz-50 Mhz AM in nine bands. Output 0-100K uv into 50 ohms. Modualtion 0-50% 400 or 1000 Hz internal. One



TO 405 MHZ AN/URM-26 SIGNAL GENERATOR, older version of URM-26B,

3-405 Mhz AM-CW in six bands; output 0.1 to 50K uv into 50 ohms. 0-50% internal modulation, 400 or 1000 Hz. Requires 115 VAC 50-1000 Hz. 112x154x104, 42 lbs sh wt. Used, reparable, \$90.00; Checked, \$135.00 MANUAL, partial reproduction, \$10.00 CM-179 10:1 or MK-1289 adapter, \$7.50 each.

PLUG-INS FOR HP-524 AND SIMILAR COUNTERS. USED, REP. ADD \$10 FOR HP MFG. MX-1637 10-100 MHz, \$35. CV-594 100-220 MHz, \$25. HP-525C 100-500 MHz, \$125. HP-526A VIDEO AMP, \$40. MX-1636 TIME INTERVAL, \$25.00 HP-526C PERIOD MULTIPLIER, \$40.00 TPANSIT CAPES (FOS ESC.



TRANSIT CASES F/525-526 PLUG-INS. STEEL (||X 8x8), \$5.00. FIBERGLASS (|44x94x9), \$10.00

TS-510A SIGNAL GENERATOR



TS-510A/USM-44A SIGNAL GENERATOR, 10 to 420 Mhz AM, CW, and pulsed carrier. Internal modulation 400 or 1000 Hz. External mod: 100 Hz to 20 Khz. Output: 0.1 uvolt to 0.5 volt into a 50 chm load. Large 52 round meters indicate Percent meters indicate Percent Modulation and Output Volts-DBM. With built-in

1 Mhz and 5 Mhz crystal calibrator. Similar to Hewlett-Packard 608D. Power required: 115/230 VAC 50-1000 Hz. 131x162x21, 80 lbs. Used, reparable with output, \$245.00 \$195. MANUAL for TS-510A, partial reproduction \$10.

4 TO 405 MHZ GENERATOR

SG-117/URM-26B SIGNAL GEN-ERATOR, 4.0 to 405.0 Mhz AM-CW-pulse in six bands.



AM-CW-pulse in six bands.
Compact unit has 0.1 to
100K u-volt output 0 50
ohms. Modulation 400 or
1000 Hz 0-50%. External
pulse-mod requires positive 40 V min., 50-5000
pps; duration 2-40 u-sec and 70 ohm input impedance. Requires 115 VAC 50-1000 Hz. 11214
x102, 38 1bs sh wt. Used, reparable, \$175.00
Checked, \$225.00; Manual, partial repro. \$10.
ACCESSORIES sold only w/purchase of URM-26B:
CN-315 2:1 attenuator, 50 ohms, \$6.00
CN-315 10:1 50 \(\) 77.50 CN-471 10:1 70 \(\) 8.
CU-439 impedance matcher, \$7.50
ENC cords, 4 ft, \$1.25; 6", \$1.00

MATRIX PRINTER MECHANISM, precision German-made mechanism used in a U.S. assembled matrix printer which had speeds upto 180 CPS bidirectional, 0-132 or 0-158 columns. Includes single platen, ribbon drive, motors, belts, paper guides, etc. In 26 "Wxb½"Hx20"D beige plastic case with cast-aluminum base. Cover lifts for easy access. Add your own control/interface electronics and print heads and make it operational. 75 lbs sh wt. #MFM/MIZ, unused, 179.50 #MFM-MIZ MECHANISM, same as above except

#MPM-2F/MI2 MECHANISM, same as above except with dual platen; 80 lbs sh. Unused, \$130.00

with dual platen; 80 lbs sh. Unused, \$130.00

MI2 DESIGN 2400 MATRIX PRINTER, 180 cps bidirectional; 0-132 or 0-158 columns, 96 character set plus elongated print feature. Units are acld "AS-IS, repairs required/no documentation." 175 lbs sh. Used, as-is, \$400.00; As-is, less printhead, \$300.00 PRINTER EXERCISER for the above printer; selectable baud rates from 50 to 9600. Uses 8080A, 8255A, 8251, 8224, 8228, &4/2708's. In transit case; 8 lbs sh. \$100.00 PRINTER STAND only as shown above; 25*H, 13" x24" support for attaching desk top. 38 lbs; bus or truck shipped only. #FSD/MI2 used \$25.

MECHANISM PC BOARDS



#217D-242 CARRIAGE-RIBBON MOTOR DRIVER BOARD, provided outputs for red/blk ribbon solenoid, ribbon motors, and carriage as well as voltages carriage as well as voltages for Processor, Controller, and RAM PCB's. Has power transistors 6/TIP142, 3/TIP-140, 3/TIP145, 2/TIP2955, 2/1M320T-12, 2N3055, etc and 74-series IC's; -40 -5 -9 VDC req. With pin-outs, \$16.95

#217D-243 PAPER FEED #1/

#217-246 PROCESSOR CPU, has P8085 w/5.185 Mhz crystal, 82554, 8212, 8253, 3/8205, 4/2114 RAM, 74IS00, 74IS02, 74IS32, 74IS93, and 74IS244. Also sockets for 4/2708 EPROM. Requires +5 VDC (plus +12



V for 2708's). 10x7: w/pinouts, \$60.00

PRINTER INTERFACE PCB



#217E-238 PROGRAMMABLE #217E-238 PROGRAMMABLE INTERFACE, has 8080A microprocessor, 8251 programmable communications
interface, 2/8255 programmable peripherial interface, 8224 clock generator, 8228 controller,

terface, 8224 clock generator, 8228 controller, 3/8205 decoders, MCl4411 baud rate generator, 4/2111-4 256x4 RAM, 4/4804 1024x4 RAM, 74123, 74196, and 7418304. Also four 6-place DIP switches for baud rates 75-110-124.5-150-200-300-600-1200-1800-2400-3600-4800-7200-9600 and sockets for 2/8708 EPROM. Provisions for additional 2/2708, 4/4804, 8251, and secondary transmit-receive components. Requires -9 and +5 VDC: 7kx10k. With pircuit 385 -9 and +5 VDC; 72xlo2. With pin-out, \$65.

#217D-249 SERIAL INTER-#217D-249 SERIAL INTER-FACE, has 8212 8-bit input-output port, 8251, MC14411, 75188, 75189, 74IS08, 74IS10, two 74IS243, 1.8432 Mhz crys-tal, five 8-place DIP switches for baud select as on #217E-238 in-terface. Provision secondary xmit-receive components. -12 -5 VDC 42x7. W/pin-outs \$21.



SPACE TOY' MODULE

SPACE WARRIOR MODULE, eletronic toy with mo-tor speed and shooting sound effects with flashing LED's. Firing of infra-red LED is detected on aggressor module causing "hit" effects and an inactive period.

Requires 9 VDC transistor
battery. Sold AS-IS, may have
cold solder joints or other problem. 62x22x12
2 lbs sh. #SPW-MOD, \$3.95 each; 2 for \$6.50 CIRCUIT BOARD only from above module, AS-IS; #SPW-PCB, \$2.50 each or 3 for \$6.00

WHISTLE/SOUND ACTIVATED



WHISTLE/SOUND ACTIVATED SWITCH, alternates on-off latching operation. Can be used to control lights, TV commercials, robots, etc.
Ten transistors; 22x3-1/8
circuit board with microphone and schematic. #AST-968SS, \$2.50 each.

TIME-TEMP SIGN PCB'S

SCR/TRIAC CONTROLLER BOARD with seven each 400 V 4 & SCR's and 200 V 6 & triacs. SCR's trigger the triac gates with a 50 m-sec 16 V pulse that holds all trig-gered triacs "on" until 24 VDC gered triacs "on" until 52 to SCR's is reset. Originally p/o time-temp sign. 6x6x8, 1 #ASI-CMC27, w/schematic \$5.50





TRIAC CONTROLLER BOARD W/ eight RCA 200 V 6 A triacs (TO-66), isolation/trigger transformer, shift register, and gates which control each triac. P/o time-

temp sign. With schematic and 22-pin edge connector. 42x8x2, 2 lbs. #ASI-CCMP107 \$5.95

LOGIC CARD p/o time-temp aign controller containing IC's 2/555, 74ISOO, 2/74ISOS, 5/74ISI4, 74-IS2O, 6/74IS32, 2/74IS42 2/74IS93, 74ISI23, 74-IS237, 74IS367, 74US, 74US





MICROPROCESSOR CIRCUIT BOARD, MICROPROCESSOR CIRCUIT BOARD, has C4004 P-channel micropro-cessor, 4/P4001 256x2-bit PROM, 2/P4002-1 320-bit RAM and 4-bit output port, 3/4003 10-bit serial in/parallel-ser-ial out shift register, plus 53 transistors. #IC-07, \$3.50

VARACTOR

TV TUNER for channels 2 thru 83; output into 751

turing voltage 0.4 to 30 VDC; 300 or 75 n antenna input. Sylvania mfg; with pinout info. 3 %x1 x5, 1 lb. #1052BD3B, unused, \$14.95



CONTROL ASSEMBLIES ON 9x4 HEATSINK. Used, excellent yield on

TRANSISTOR CONTROL ASSEMBLY WITH DIODES.

8/TO-3 60v (similiar to 2N3055) and 8/TO-66 (similiar to 2N3054) 60v transistors, 8/0.4 ohm 5W and 8/30hm 3W resistors, 8/DO-4 diodes with insulated mounting hardware. #7729 \$2.00 TRANSISTOR CONTROL ASSEMBLY, contains 8/TO-3 and 8/TO-66 and emitter resistors as above. small diodes and resistors #0425 \$3.50

CONTROL CLUTCH ASSEMBLY AND HEATSINK 9X4 IN. 8/100v TO-3 AND 2/60v TO-66 TRANSISTORS, Five 0.4 OHM 10 W RESISTORS, MORE.#095-8139 \$2.50

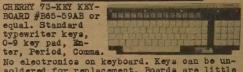
PAPER TAPE READER

TALLY PAPER TAPE READER/
TRANSMITTER, consists of
escillator, receiver,
legic, and power supply
cards. Uses standard ene
inch paper tape; selectable 5 or 8 channels, A
er U mede. Output can be
set to 0,-5,-6,-9,-12 dbm. Ne
specific data but believe this to be 300 baud
Requires 115 VAC 60 Hz. Size: 9-5/8x12x42,
11 lbs sh. #PTR-760-328, used, \$14.95 TALLY PAPER TAPE READER

#760-128 TALLY PAPER TAPE READER, similar to above; no selectable output, 100 baud. \$8.95

73-KEY KEYBOARD

CHERRY 73-KEY KEY-BOARD #B65-59AB or



No electronics on keyboard. Keys can be unsoldered for replacement. Boards are little used in good condition. 15\$x6\frac{1}{x}\$1\frac{1}{5}\$, 3 lbs sh. #COM-B65-59AB, complete as pictured, \$22.00 #SPA-B65-59AB, as above but no space bar \$12. #MIS-B65-59AB, as above but no space bar \$12. missing 4 to 6 key switches, \$9.00 #PAR-B65-59AB, missing at least 10 key switches; suitable for parts only, \$6 2/\$10

TV GAME SWITCHES



TV GAME SWITCH as TV GAME SWITCH as used on many TV video games; 300 ohms, RCA jack, 4" twin leed. 2½x lixl, 1 lb. #TW-TVGS, \$1.95

SHIRIDED TV GAME SWITCH, "Game" RCA jack input is shielded from TV inputs; 300 ohms. 22x3xl box also has two screw terminals. Other uses possible. #JA-TVGS. \$2.95

H-K FM TUNERS



HARMON KARDON

jacks; 2* dia tune shefts. With diagram, NEW. 400331591A, two MOSFET RF stages, MOSFET mixer, two transister escillater; 3:1 gear reduction. Requires 13 VDC; 42x2x42. \$9.95

#00234339 (Alps), two MOSFET RF stages, MOSFET mixer, IC escillater; 3-gang variable capacitor; 3:1 gear reduction. 5\frac{1}{2}x2\frac{1}{2}x3\frac{1}{2}. \frac{3}{2}7.95

fBll3Ul3 (Alps), ene FET, two transister escillater; requires -12 VDC. 32222222, 2 lbs sh. \$4.95

If MODULE for FM tuners, 10.7 Mhz; five transister, three IC, three ceramic filters. With schematic; 62x3x12, 1 lb. #AMB-831, \$9.00





PRINTER POWER SUPPLY as

voltages. Also has line filter for external fan, relay for cover interlock, and two fuses. llx6x4, l8 lbs sh wt. #803-101, \$\text{3D\$\text{2}\text{3}\text{4}}\$.

PRINTER LOGIC BOARD

PRINTER LOGIC PC BOARD PRINTER LOGIC PC BOARD with over 100 each 74-series IC's, sockets, and tantalum capacitors --plus CBOOM CPU, 8/2102 RAM, 10/1702 PRCM, six 3541 FIFO, AYS-1013 UART etc. Part of matrix



printer; w/pin-out. 20 x14. #217 E-224, \$35.

TAKE 30% OFF TOTAL PRICE WHEN YOU BUY ANY 4 CIRCUIT BOARDS BELOW



CPUS



P8085 CPU, \$0.95 8212 8-bit I/O 1.75 8251 programmer 5.55 2111 RAM \$5. 4/\$10. 8255 programmer 4.95 2111 RAM \$5. 4/\$10. 8255 programmer 4.95 2114 RAM \$4.95 4/\$17. 8254 RAM \$4.95 8/\$17. 8254 RAM \$4.95 RC4558 dual op-amp 50¢ MC1489 quad-line, \$1.

IM703 RF-IF amp 3/11. Cle031 CdSe photo 2/\$1 FPA103 light reflective transducer, \$1.25

CMOS IC's, good pull-outs w/'79 date codes: 4060BE 2/\$1.

LM-340T-12 w/heatsink, \$1.50

MFS6513 equivalent (Motorola w/O139 house #)
NFN RF transistor; 30 V, to 330 Mnz. 6/\$1.
MFSA14 NPN darl 5/\$1. 2N3055 NFN 10 A, 75¢
2N2222A NFN 6/\$2. 2M4126 PNP 10-no 6/\$1
2N6346 unijunet 75¢ TTP120 NFN darl. 75¢
TTP140 NFN darl. 95¢ TTP142 NFN darl. \$1.00
TTP145 PNF darl \$1.00 7808 8 v reg., 3/\$1. TIP120 NPN darl. 75¢
TIP142 NPN darl. \$1.00
7808 8 v reg., 3/\$1. 35 AMP

1 AMP 50 FIV 20/\$1. 400 FIV 15/\$1. 1000 FIV 10/\$1. 5 AMP 800 FIV, \$1.75 MR-sries, 6 AMP MR750 50 FIV 85¢ MR751 100 " 95¢ MR752 200 " \$1.10 MR754 400 " 1.25 50 PIV \$1.80 100 " 2.10 600 " 3.50 600 " 3.50 1N3890 100V 12A 4/\$3. 2ENERS, 1 W: 3.3 3.9 4.1 10.2 V 4/\$1. 11.6 12.0 V 3/\$1. MR751 100 " 95¢ 11.6 12.0 V 3/\$1. MR752 200 " \$1.10 1N2974B, 10 W 10 V MR754 400 " 1.25 5% stud mt. \$1.25 1N1357RA ZENER, 10 W 18 V 5% rev-polarity \$1. VARO VTA200/S 200 V 25 amp bridge rectifier, c.t. cathode, stud mount, \$1.00 ea. 4/\$3. #50-100A RECTIFIER, 50 V 100 A conservative; no hardware or pigtail. House #; 2x1". \$2. CE#A70EK113, 200 FIV 100 A, no hardware \$3.50

RED, T-1% size 8/\$1. GREEN 6/\$1.

DARK RED, HP5082-4697, 6/\$1.00
7-SEGMENT NUMERIC DISPLAY, common anode, lefthand decimal HP5082-7730 \$1.

SIA-2 DISPLAY; .33", - or -1 and 1, 2/\$1.00

IC SOCKETS

8-pin low-profile 5/\$1. 14-pin wire wrap 6/\$2. 14-pin standard

5/\$1. 3/\$1. 3/\$1. 5/\$2. 4/\$1. 4/\$1. 3/\$1. 50¢ 16-pin stnd. 20-pin 1.p. 35¢ 24-pin 1.p. 40¢ 18-pin 1.p. 22-pin 1.p. 24-pin stnd. 28-pin 1.p. 45¢ 40-pin stnd. \$1.00 28-pin stnd. 60¢

JUMPERS

unused. PCB jumpers, two 14-pin, 18* long, \$2.50 / one 16-pin, 12" ", 1.50 3/ two 16-pin, 48" ", 3.00 2 1.50 3/\$3. 43-16P1; one 16-pin, 12" 44-16P2; two 16-pin, 48" 12" 2.00 43-24P1; one 24-pin, 12" 60-24P2: two 24-pin, 22"

44-40P2; two 40-pin, 23" ", 425 3.25 9-14P1; one 14-p, 23" loose leads, \$1.75

PC BOARD JUMPERS with IC plug and DP25P, 16": 16-pin, #16/DP25P \$4. 24-pin, #24/DP25P, \$5.

TEXAS INSTRUMENTS SEMICONDUCTOR MEMORY DATA BOOK (1975), 272 pages, \$1.00

COPPERCLAD PCB

Single-side copperclad etching board for making printed circuits. Phenolic (PH) or fiberglass (FIB) backed as noted. Some drilled (d).

PH# Size Price Size Price Size Price 4x18 \$.75 llx16(d) \$2. 16x18 \$2.75

#VTC-SS 14x18 .019" \$1.75 18x24 .015" \$2.25 #VTC-DS 22x28 .006" 2.50 #UY 5 or more one type, take 20% off price.

EDITOR KEYBOARD

WORD PROCESSOR
KEYBOARD, 93keys including
qwerty format
and function
The processor of the

and function
keys "Help,
Move Text, Emph Add, Search, Save, Indent
Set, Set Tabs, Setup, Cancel, Enter, Options,
Quick List, Command, Msg Get, Back Erase,
Skip Back, Prev Page, Next Page, Recall Page,
Store Page, Skip Forward, "etc. IC's 74LS14,
22-950-3B, 22-908-03, PB021H; 3.57945 Mhz
crystal, Almond color keys; Keytronic mfg.
5%x19x12, 5 lbs. #A65-02181/3767 NEW \$29.50

CORTRON KEYBOARD key switches. Has standard 54-key typewriter forwith ferrite core mat, 12-key num-

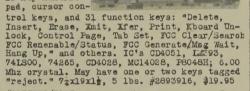
mat, 12-key numeric pad, and 17 entry keys (4 unmarked). Butterscotch-brown and beige keys; looks like serial input. With IC's 2/7403, 7405, 74155, 4/74145, 745287, 3/741500, L302, 2/1504, 2/LS10, LS08, LS11, LS14, LS20, 4/LS74, 2/LS93, CA3086, MC833P, and 80-551276 controller. Requires +5 and -12 VDC; No further info. 62x182, 4 lbs. #55-500168 NEW, \$21.95



BOARD with standard 54-key typewriter

mat and 12-en-try keys. Keys are grey and blue; no electron-ics. 52x18, 3 lbs. #A65-01684, NEW, \$18.95

CORTRON 110-KEY MULTI-FUNCTION KEYBOARD with qwerty format, 13-key numeric



#113SD30/3137, same as above except has Japanese KANA character function and Microswitch mfg; grey, black, blue, red keys. \$28.95



DIODE W/BUILT-IN HEATSINK, approx 100 V 50 amp; 25 x2" dia plus pig-tail. Removed f/ equipment. #KS19404, \$2.50

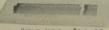
GENERAL INSTRUMENT FULL-WAVE RECTIFIER BRIDGES, new: #KBPC25-02, 25 emp 200 V. \$2.25 200 V, #KBPC6005, 6 50 V,

JOYSTICK

HIGH-QUALITY JOYSTICK with removable center return removable center return springs. Uses two Bourn 5K ehm pets with trim adjustments fer pesition centering. 1-3/8"H stem above panel surface; 12" depth required behind. 0/a apprex 22 x22, 1 lb. #JS-14227 NEW \$7.

KEYBOARD ENCLOSURE

KEYBOARD ENCLOSURE for 75-key format including separate numeric



pad; unpainted, unas-sembled. 22x20x72, 4 lbs. #KNC-KBD, \$14.95

VARACTOR

TV TUNER for channels 2 thru 83; output 4 4 4 2 thru 83; output into 75 n terming voltage 0.4 to 30 VDC; 300 or 75 n antenna input. Sylvania mfg; with pinout info. 3½x12x5, 1 lb. #1052BD3B, unused. \$14.95 POWER SUPPLY REGULATOR BOARD, 2/3401 quad op-amps, 5/741 op-amps, 3/2N5958, 8/2N2222, 4/ 2N2906, 2N3054, etc. 2 lbs. #PSR32-A1, \$2.50

RECTIFIER SCR BOARD with 3/GE122F 50 V 8 amp SCR; 13/1N5402 200 V 3 A; 6/0.39 ehm 5 W and 5 ohm 25 W resistors, etc. #PSR32-A2, \$2.25 12-DIGIT FLUORESCENT DISFLAY using DO-10A 1-5/16"H tubes with 5/16"H display; 21 transistors, two IC's, capacitors, resistors, etc. 22-contacts on 51x3-3/8 board. #QP-3304 \$3.95
FAIRCHILD IC'S: 4/9002, 2/9015, 2/9016, 74180 3/9024, 2/9602, 9/2M2222 plus resistors, diodes, etc. 2 lbs. sh. #C200504G1, \$1.95
TAILY OSCILLATOR, ferrite coils 81.9-72.544.7-42.9-35.6-34.9-30.2 mHy, \$9/50 V capacitors.001 to.47 mf, 9/2M3565, 2M3643. \$2.95
TWELVE DIGIT FLUORESCENT DISPLAY
#POS2, 3/8" DIGITS WITH CHARACTERS 0 THRU 9, -, -, ', AND DECIMAL POINT. TUBES ABOUT 2" HIGH.
ALSO 2/M5812 COUNTER IC'S, 27
TRANSISTORS, AND OTHER PARTS.
9X8\frac{1}{2}X2\frac{1}{2}, SHPG. WT: 4 LBS.
DIODE MATRIX 34 X 20 CONTAINS 90 DIODES 12-DIGIT FLUORESCENT DISPLAY using DG-104

9x82x22, Shpg. WT: 4 LBS.

DIODE MATRIX 34 X 20 CONTAINS 90 DIODES
IN4004 OR EQUAL. 6XII #005330 \$3.95

DIODE MATRIX 25 X 7, 23 TRANSISTORS, DIODES
WITH 22 PIN SOCKET. 7x42, #2010200

CORE MEMORY ARRAY 2 SECTIONS EACH 52 X 52
BOARD SIZE I3x13x12 #2162301 5 LB \$3.95

SMALL CORE MEMORY ARRAY, 2 SECTIONS APPROX
65x15 EACH. 4 REED RELAYS 2/3PST, 2/5PST
7x42x2 #2006000 \$2.95

ENDERSOR DRIVER 4/DM8851 DUAL RETRIGGERABLE MVBR, 7474, 9109 HIGH VOLTAGE HEX INVERTER, 2/7400, 7420, 7406, 18 BYPASS CAPACTTORS. TO-3TRANSISTOR ETC | LB #484-0001801 \$1.50

INDUCTOR BOARD, has 3/200 uH and 2/1200 uH inductors 2"H x 1-3/6" dia; also 3/4000 mf 20V 3/3000 mf 25 V axial capacitor 2N5039, 2N2219, 1M339, 1741.
3 lbs sh wt. #54-014535, \$2.95

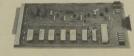






CMOS#84293; 3/4001, 2/4002, 5/4009, 2/4010 4/4011, 2/4012, 7/4013, 4021, 2/4022, 7/4023 2/4025, 2513 a 64x8x5 character generator 7417. 9x72, sh wt 2LBS #84293 \$7.50 CMOS-KI; 6/4008, 4/4009, 4/4011, 2/4012 7/4013, 9/4016, 5/4022, 2/4023, 4024,5/4040 9x7½, sh. wt. 2 LBS #CMOS 84292 \$6.95 CMOS #14007; 4/4001, 2/4011, 2/4013, 4042, 4558 DUAL OP-AMP, 23 TRANSISTORS, MANY RESISTORS, CAPACITORS. | LB #14007 \$2.95

EXER, 14



REED RELAY

REED RELAY BOARDS LISTED BELOW CONTAIN 12VDC REED RELAYS AND ASSOCIATED COMPONENTS. ORDER BY BOARD NUMBER. SH WT. 3 LBs.

#5336 1/DPST, 4/5PST, 2/4PST, mercury wetted relay SPDT, 26 diodes. \$3.95
#5346 12/SPST, DPST, 2/DPST mercury wetted.
5 transistors, 51 diodes, capacitors
3/25 mf 50 V and 1/47 mf 35 V. \$5.95
#5361 3/DPST, 4/SPST, mercury wetted SPDT,
6 transistors, 24 diodes, and misc capacitors and resistors. \$5.95

#315D339 Eight Clare HGSM 7004 mercury

wetted relays on board, \$3.95

MEMORY PCB Commercially designed PC boards w/position info; less components.

#217-248 6K EPROM BOARD for six 2708 EPROM; with 24-pin socket and connector, \$6.00 #217D-101 EFROM BOARD for eigth 1702A RPROM, 4/7404, 2/3404; with edge connector, \$2.40 #217D-136 ZK RAM BOARD for sixteen 2102 RAM, 4/7404, 7420; with edge connector, \$3.00

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Bulk Rate
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PAID
Lima, Ohio
Permit No. 74

SPERRY KEYBOARDS



SWITCH KEY-BOARD, stand-ard qwerty format with 13-kev numer-

ic keypad; 15 red control keys. IC's SW-10667 MC836P, SW-20339K controller. Grey keys and case; 71x172x22 4 lb. #84-SD12-14 used \$27.95 #8120302, same as #84-SD12-14 except with Japanese KANA symbol characters; NEW \$39.95

94-KEY MICRO SWITCH KEY-BOARD with case, standard qwerty keys plus nu-



meric pad and control keys Display ERASE to more pad and page 10 p 82x21x3, 8 lbs. #2889906, unused, \$34.95



74-KEY MICROSWITCH KEYBOARD, similar to above except more compact and without numeric pad; 13 function keys. ICs keys. ICs

74H04, 7442, and SD-23093M; 5.904 Mhz crystal. 3' cord w/DEC9S 8tx15x3, 5 lbs sh. #2825479, NEW, \$24.95

CORTRON EUROPEAN KEY-



cations. Also function keys Numeric, Alphe, Repeat, Reset, LCA, Delete/-Skip, Disp/Auto Off, Field Rel, Char, Field, Rec, Bypass/Prog, Cmnd/Rel, Insert/Dup, V Cor/Ax Dup, Hex, and other symbols. Grey alpha, black numeric, blue control keys. IC's 1455, DM933, CA3086, 7493, 74145, 741500-02-04-08-11-74, and 80-551276 controller. No further info. 6x12x12, 4 lbs. #55-500501/2683 NEW \$17.95

TV-2 TUBE TESTER



TV-2 DYNAMIC MUTUAL CONDUCT-ANCE TUBE TESTER, checks most military and older commercial receiving and low power xmitting tubes. Test

power xmitting tubes. Test sockets for 4,5,6,7-pin, 7-and 9-pin miniature, loctal, octal, acorn, sub-mini flat and round tube bases. Measures mutual conductance, emission, sas, noise, and shorts. Meters for filement, grid, plate, streen, signal, and transconductance (percent quality). Theoretically, a tube not listed on the roll data chart can be tested by setting the proper voltages on the meters provided those voltages are known. Requires 115 VAC 50-1000 Hz. 17x182 x161, 50 lbs sh wt. Used-reparable 375 359.50 Checked, \$110-00 \$95.00 MANUAL, partial reproduction, \$10.00

ALARM PANEL



ALARM CONTROL PANEL w/5-posi-tion key lock

wefer switch, SC628 Sonalert® 6-28 V 3-14 ma, ar five panel lights. llix4x8, 2 lbs sh. #ALRM-SC628, used w/key, \$8.95

100 WATT LOW PASS

100 WATT LOW PASS FILTER for commercial transceivers; sharp cut-off approx 40 Mhz. 62x2x12 aluminum box with two S0239 connectors. #LPF-40M, NEW, \$6.95



50K JOYSTICK

JOYSTICK with four 50K ohm potentiometers having fixed center-taps; smooth ball ac-tion. Brushed aluminum hand-le; 2½x2½x2. #JS-50K-LIB NEW \$5.95

SWR POWER METER

ME-165/G STANDING WAVE-RATIO POWER METER, de-signed for use with 400 watt Hf transmitters; full meter scale of 600 watts. SWR references on meter of 1.5-2-3-4; func-tion switch Power-Adjust-



SWR-Operate. Type N input and output connections. Flanged on back for wall mounting. 13 2 2 2 2 18 lbs. Used \$49.50

COMPUTER SUPPLIES



COMPUTER POWER SUPPLY, outputs +5
VDC 15 amps and ±12 V 1 A from
115 VAC 60 Hz input. Uses IC
regulator to drive 2N3055; also LED status indicators, axial fan, and cover. 6x62x19 30 lbs. #MA-2149, used \$19.95 #FD-2266 DISK DRIVE SUPPLY as above but +5 V 5 A, +24 V 5 A, -5 V 1 A; Wilton mfg. \$24.95

VACUUM VARIABLE

RF VACUUM VARIABLE CAPACI-TOR ASSEMBLY, consists of 7-970 pf 3 KV vacuum vari able capacitor with 28 VDC drive motor and gear assy. Will run on 8 VDC and up. #C501/18013, used, \$75.00



VOLT-OHMMETER

TS-618/PRM-15 VOLT-OHMMETER, rugged portable VOM with full scale ranges 2.5-10-25-100-250-1000 VDC and RX1 X10 X100 X1K X10K X100K ohma. Has 32 rd meter, battery ohms. Has 3g" rd meter, battery self-test, test leads, schematic w/info. Requires 3 "D" cells and -21 & +24 V source. Batteries not available. 82x42x5, 8 lbs. Reparable, \$19.95

TUNED RECEIVER

R-1440/WLR-6 HF TUNED RECEI-VER, solid-state unit operating over 1.5-19.0 Mhz AM-CW on 36 crystal-controlled channels; uses three plug-in band modules with 12 channels each to cover portions of the range. Each module is fully enclosed and shielded and has 12 adjustable antenna cir-

cuits, 12 adjustable RF amp
circuits, crystal oscillator (uses
CR-18 crystals - not available), mixer, 455
Khz IF with Clevite filter, detector, AGC,
BFO; controls for BFO, RF Gein, AM/AGC-AM/
Man-CW, Channel select. Mainframe which holds
three modules, serves as 115 VAC 60 Hz power
supply and audio amp; has Volume, Band select
600 ohm Audio jack. Band modules available:
Band 1 (1.5-3.5 Mhz) Band 2 (2.3-5.1 Mhz)
3 (3.4-7.2 Mhz) 4 (5.2-11.8 Mhz)
5 (7.9-19.0 Mhz). Our tests have found
that the modules can be operated as independent receivers on 12 VDC input and with addition of an audio amp. Also sensitivity less

ent receivers on 12 VDC input and with addition of an audio amp. Also sensitivity less than 1 microvolt and that medules may be tuned over broader range than specified band limits. No further info. We will ship three different modules of your choice with each mainframe; please specify your second choice. 8%x64x164, 23 lbs sh. Used-reparable, \$175.

OSCILLATOR TEST



SG-71/FCC CARRIER TEST OSCILLATOR, similar to Howlett-Packard 233A and used to check carri er current systems; Hz to 500 Khz in four bands. High power out-put: 3 watts into 600

ohms balanced load makes test loops 100 to 200 miles long. 6 V 600 ohm output for audio tests. W/50 VDC output meter; provision for carrier modulation. Requires 115/230 VAC 50-1000 Hz. 11x17x15, 46 lbs. Used-reparable \$65 Checked, \$105. MANUAL, partial repro, \$10.00